

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF090217\  
 Data File : BF098264.D  
 Acq On : 2 Sep 2017 23:48  
 Operator : SJ/JU  
 Sample : I5068-01 5X  
 Misc :  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 HR-06-083117

Manual Integrations  
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Quant Time: Sep 04 08:36:04 2017  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF081517.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Aug 21 15:59:04 2017  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.71  | 152  | 108800   | 20.00 | ng    | -0.04    |
| 21) Naphthalene-d8          | 7.99  | 136  | 390856   | 20.00 | ng    | -0.04    |
| 38) Acenaphthene-d10        | 9.75  | 164  | 161338   | 20.00 | ng    | -0.04    |
| 63) Phenanthrene-d10        | 11.23 | 188  | 287311   | 20.00 | ng    | -0.04    |
| 75) Chrysene-d12            | 13.86 | 240  | 261968   | 20.00 | ng    | -0.04    |
| 86) Perylene-d12            | 15.28 | 264  | 186707   | 20.00 | ng    | -0.03    |
| System Monitoring Compounds |       |      |          |       |       |          |
| 5) 2-Fluorophenol           | 5.31  | 112  | 160723   | 22.47 | ng    | -0.04    |
| 7) Phenol-d6                | 6.35  | 99   | 212112   | 21.83 | ng    | -0.04    |
| 23) Nitrobenzene-d5         | 7.27  | 82   | 116225   | 16.15 | ng    | -0.05    |
| 41) 2,4,6-Tribromophenol    | 10.53 | 330  | 27396    | 19.57 | ng    | -0.04    |
| 44) 2-Fluorobiphenyl        | 9.07  | 172  | 183934   | 16.75 | ng    | -0.04    |
| 78) Terphenyl-d14           | 12.81 | 244  | 145368   | 11.57 | ng    | -0.04    |
| Target Compounds            |       |      |          |       |       | Qvalue   |
| 74) Fluoranthene            | 12.44 | 202  | 65071    | 4.072 | ng    | 98       |
| 77) Pyrene                  | 12.66 | 202  | 68479    | 3.196 | ng    | 96       |
| 80) Benzo(a)anthracene      | 13.85 | 228  | 75332    | 4.798 | ng    | 96       |
| 82) Chrysene                | 13.89 | 228  | 66907    | 4.284 | ng    | 97       |
| 85) Indeno(1,2,3-cd)pyrene  | 16.64 | 276  | 27029    | 2.352 | ng    | 92       |
| 87) Benzo(b)fluoranthene    | 14.88 | 252  | 85524m   | 7.267 | ng    |          |
| 88) Benzo(k)fluoranthene    | 14.90 | 252  | 31741m   | 2.871 | ng    |          |
| 89) Benzo(a)pyrene          | 15.22 | 252  | 56352    | 5.409 | ng    | # 96     |
| 91) Benzo(g,h,i)perylene    | 17.06 | 276  | 25177    | 2.845 | ng    | # 94     |

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

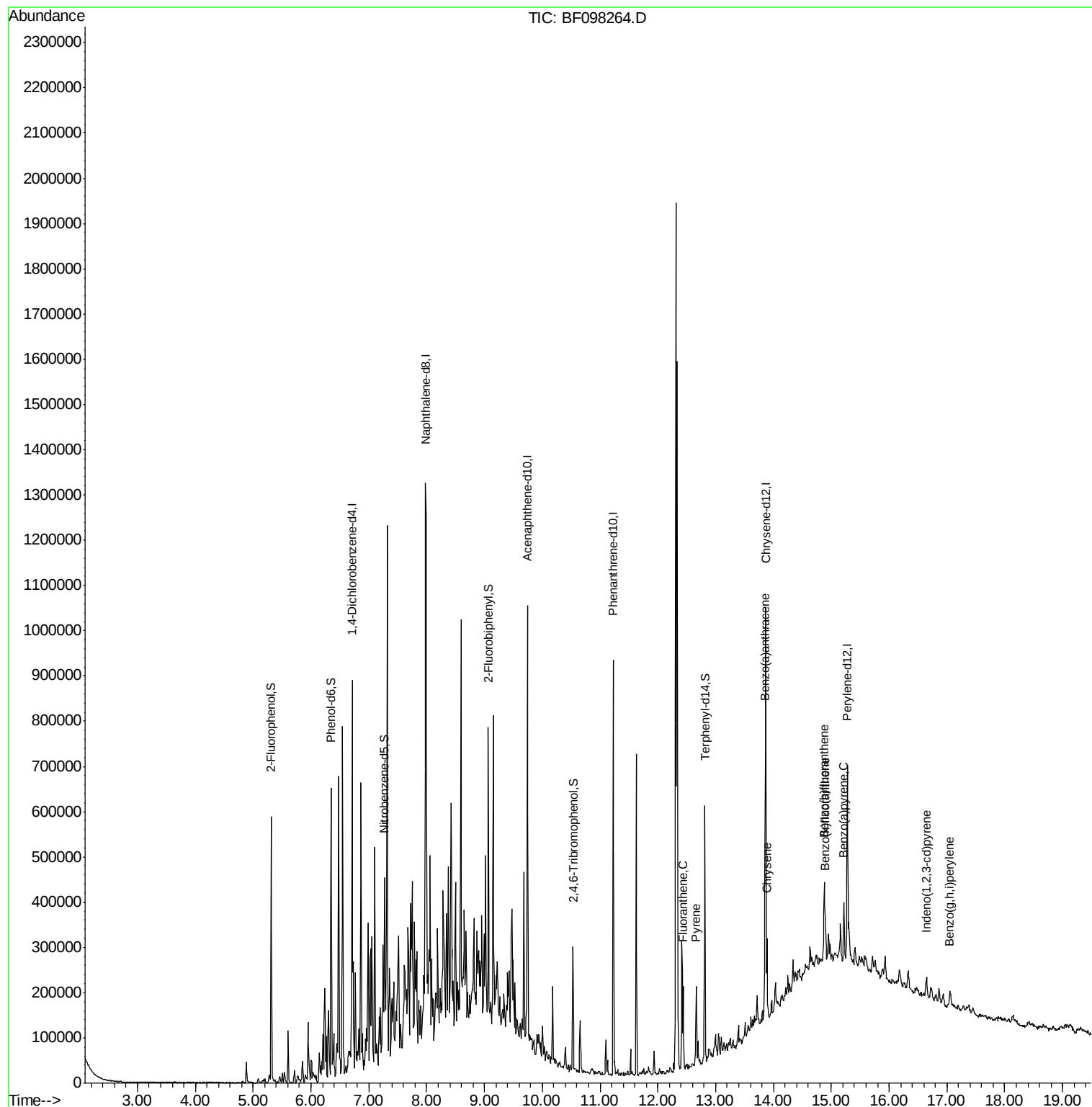
Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF090217\  
Data File : BF098264.D  
Acq On : 2 Sep 2017 23:48  
Operator : SJ/JU  
Sample : I5068-01 5X  
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Quant Time: Sep 04 08:36:04 2017  
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF081517.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Aug 21 15:59:04 2017  
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#1

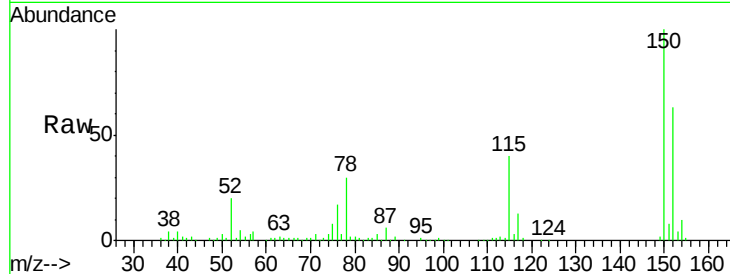
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.71 min Scan# 786  
Delta R.T. -0.04 min  
Lab File: BF098264.D  
Acq: 2 Sep 2017 23:48

Instrument :  
BNA\_F  
ClientSampleId :  
HR-06-083117

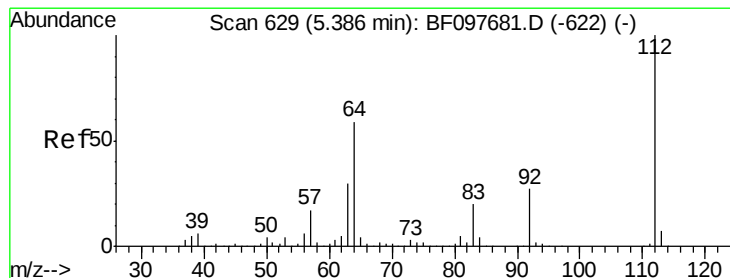
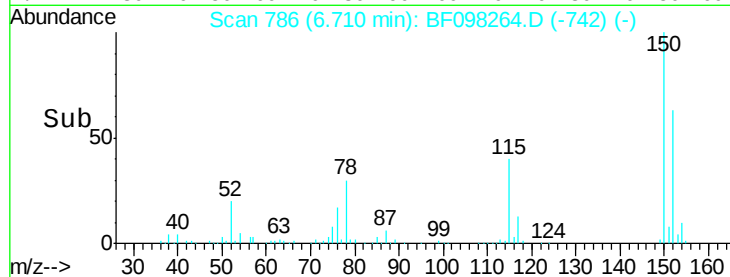
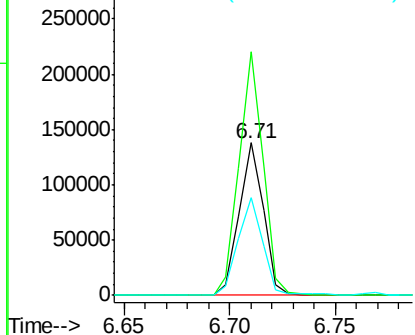
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 159.6 | 126.2 | 189.2 |
| 115     | 64.1  | 52.2  | 78.2  |

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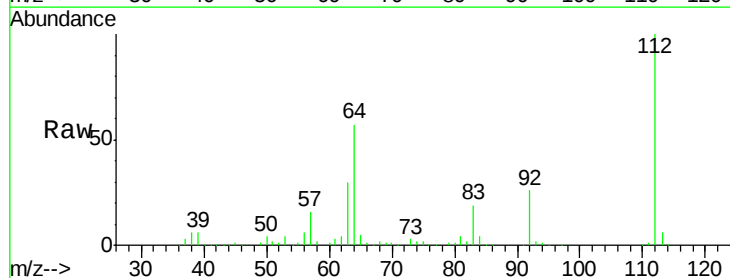
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



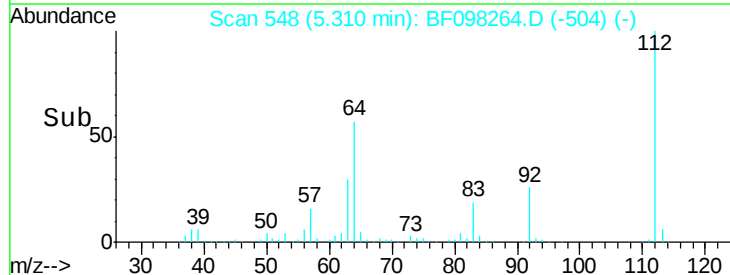
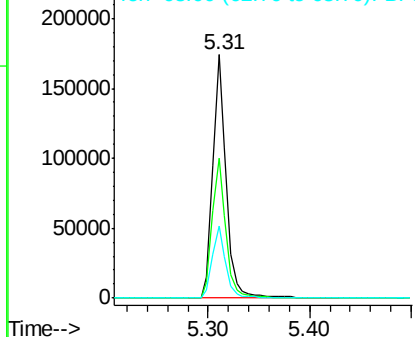
#5

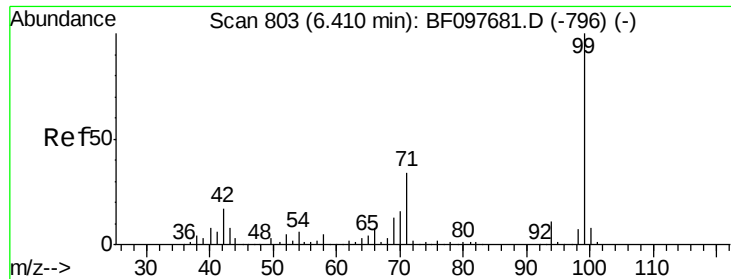
2-Fluorophenol  
Concen: 22.470 ng  
RT: 5.31 min Scan# 548  
Delta R.T. -0.04 min  
Lab File: BF098264.D  
Acq: 2 Sep 2017 23:48

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 57.4  | 46.0  | 69.0  |
| 63      | 29.7  | 23.4  | 35.0  |



Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BF0  
Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 21.825 ng

RT: 6.35 min Scan# 724

Delta R.T. -0.04 min

Lab File: BF098264.D

Acq: 2 Sep 2017 23:48

Instrument :

BNA\_F

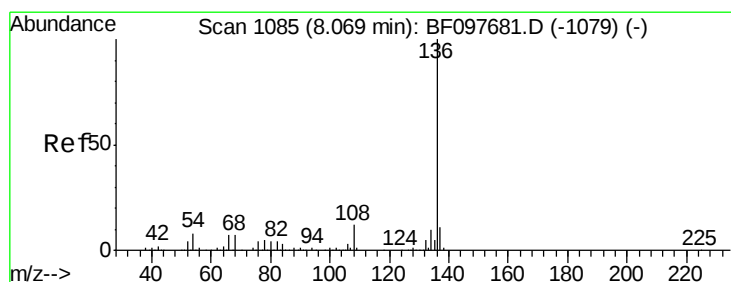
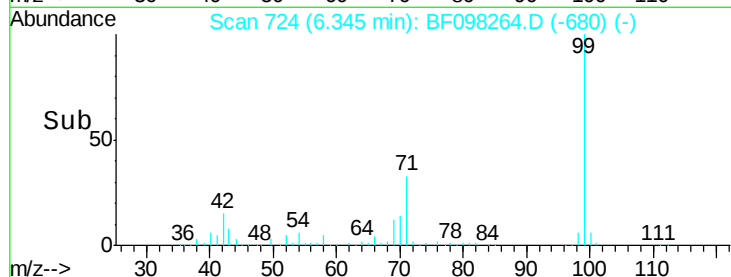
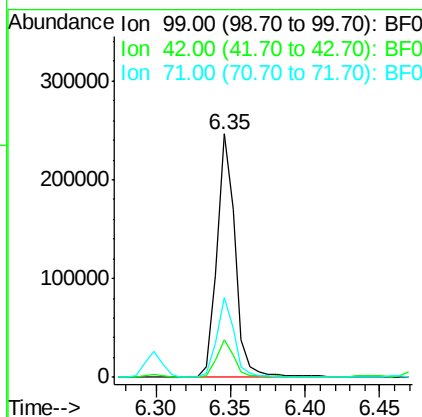
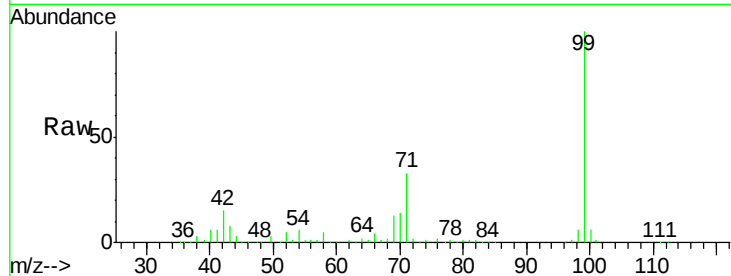
ClientSampleId :

HR-06-083117

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 99    | Resp: | 212112 |
| Ion Ratio | Lower | Upper |        |
| 99        | 100   |       |        |
| 42        | 15.5  | 13.5  | 20.3   |
| 71        | 32.6  | 24.5  | 36.7   |

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#21

Naphthalene-d8

Concen: 20.000 ng

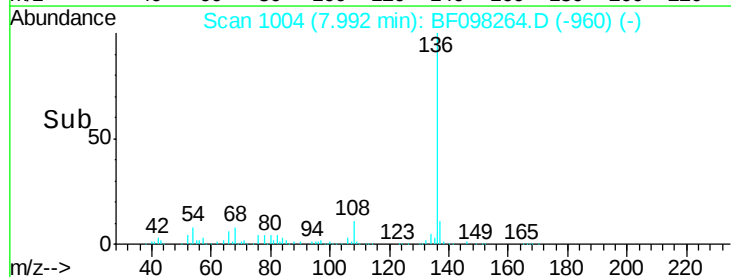
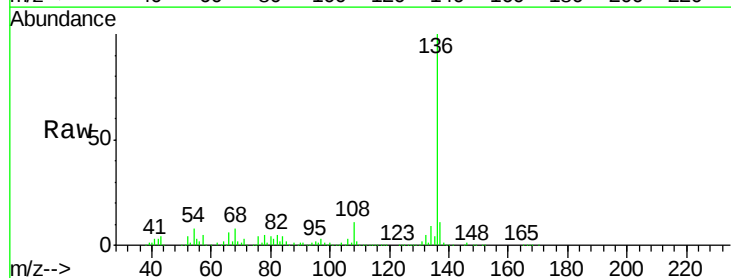
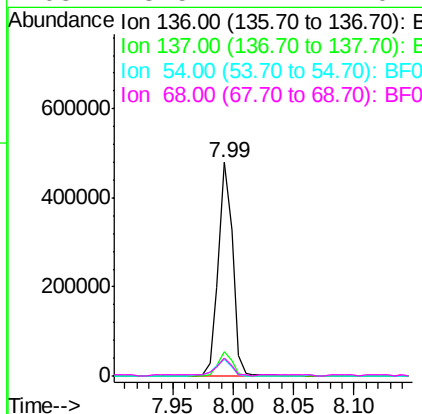
RT: 7.99 min Scan# 1004

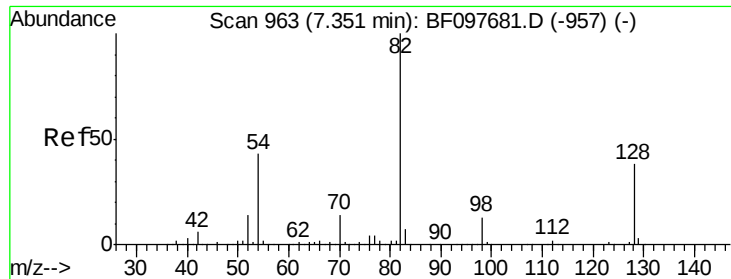
Delta R.T. -0.04 min

Lab File: BF098264.D

Acq: 2 Sep 2017 23:48

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 136   | Resp: | 390856 |
| Ion Ratio | Lower | Upper |        |
| 136       | 100   |       |        |
| 137       | 11.2  | 8.5   | 12.7   |
| 54        | 8.0   | 4.9   | 7.3#   |
| 68        | 8.5   | 4.1   | 6.1#   |





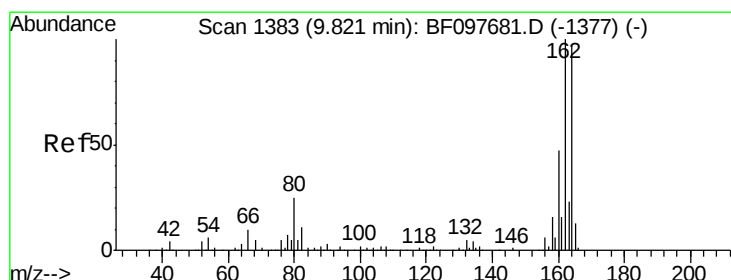
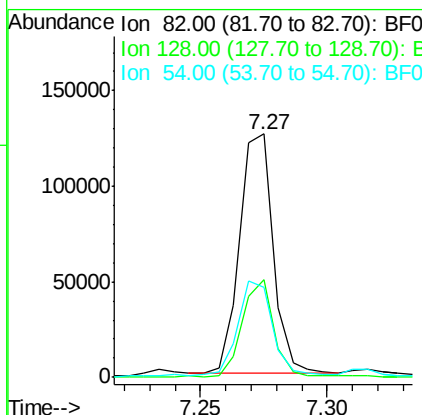
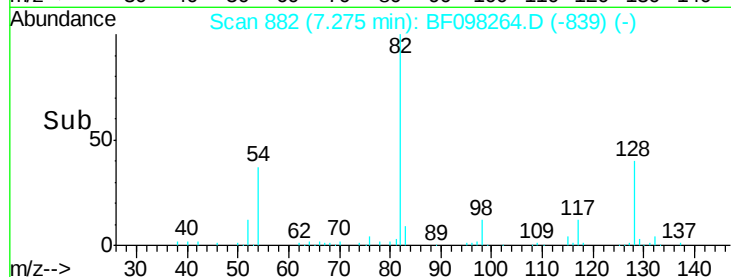
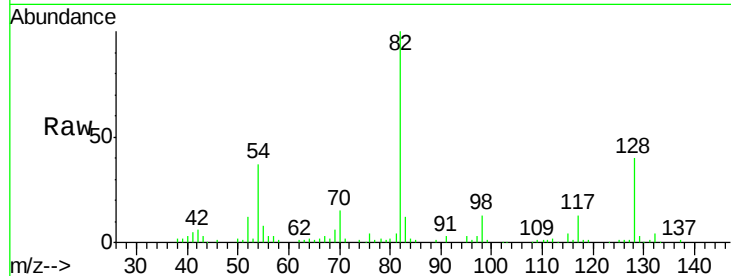
#23  
 Nitrobenzene-d5  
 Concen: 16.154 ng  
 RT: 7.27 min Scan# 882  
 Delta R.T. -0.05 min  
 Lab File: BF098264.D  
 Acq: 2 Sep 2017 23:48

Instrument :  
 BNA\_F  
 ClientSampleId :  
 HR-06-083117

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 82      | 100   |            |            |
| 128     | 39.9  | 34.0       | 51.0       |
| 54      | 37.2  | 42.2       | 63.2       |

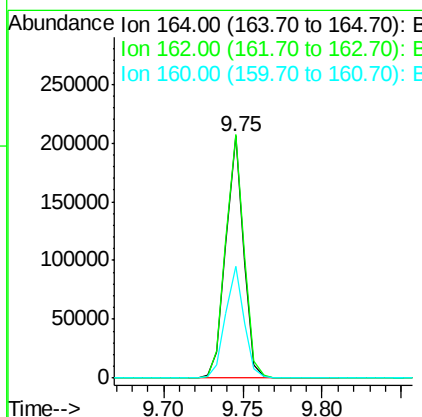
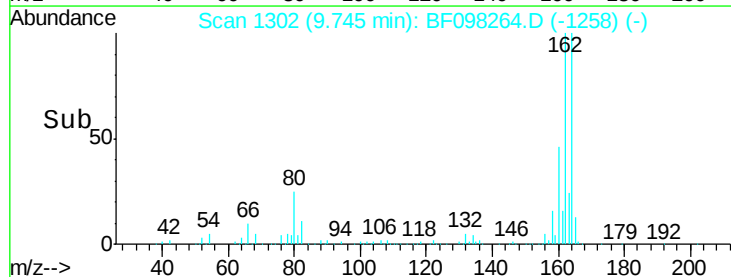
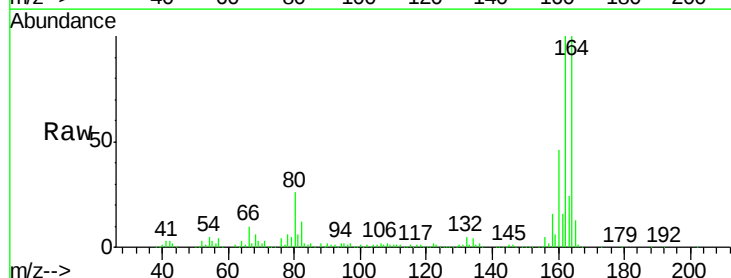
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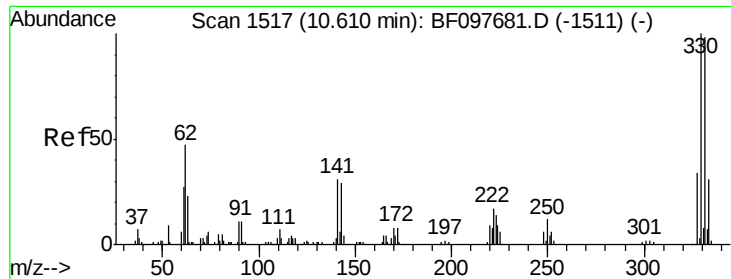
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#38  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.75 min Scan# 1302  
 Delta R.T. -0.04 min  
 Lab File: BF098264.D  
 Acq: 2 Sep 2017 23:48

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 164     | 100   |            |            |
| 162     | 100.5 | 82.6       | 123.8      |
| 160     | 46.1  | 36.2       | 54.2       |





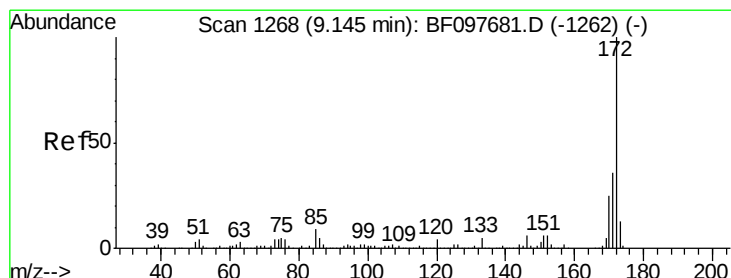
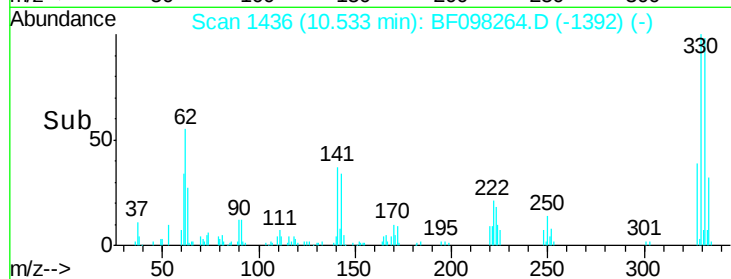
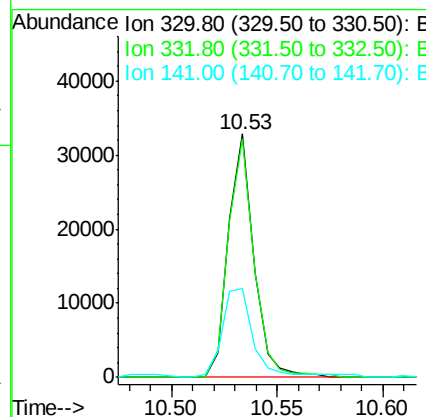
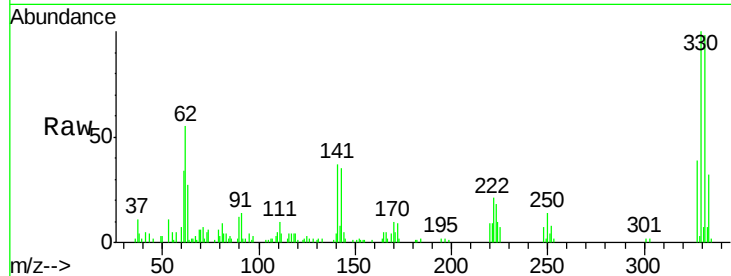
#41  
 2,4,6-Tribromophenol  
 Concen: 19.570 ng  
 RT: 10.53 min Scan# 1436  
 Delta R.T. -0.04 min  
 Lab File: BF098264.D  
 Acq: 2 Sep 2017 23:48

Instrument :  
 BNA\_F  
 ClientSampleId :  
 HR-06-083117

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 100.0 | 76.6  | 115.0 |
| 141     | 44.7  | 31.4  | 47.2  |

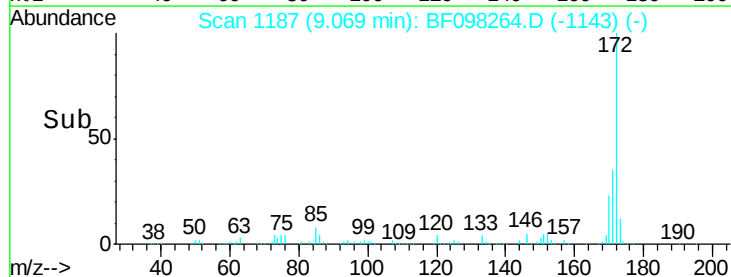
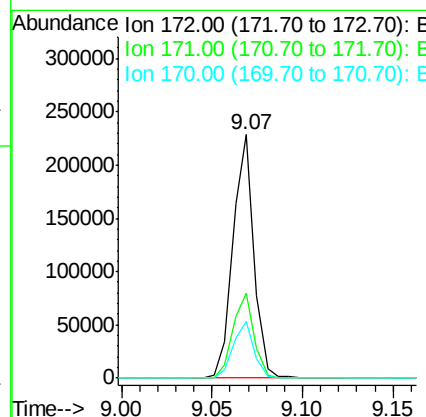
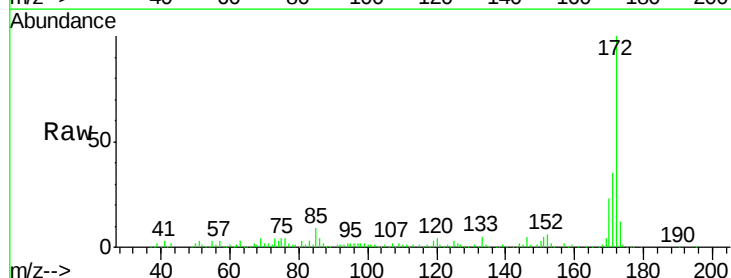
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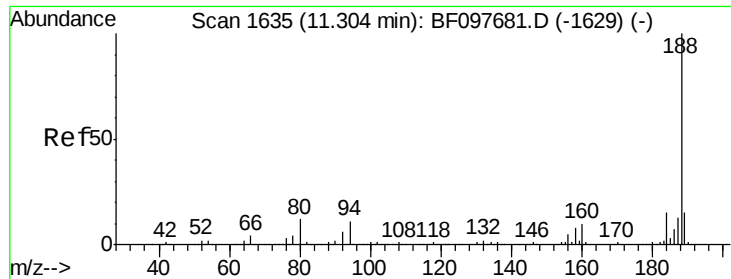
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#44  
 2-Fluorobiphenyl  
 Concen: 16.750 ng  
 RT: 9.07 min Scan# 1187  
 Delta R.T. -0.04 min  
 Lab File: BF098264.D  
 Acq: 2 Sep 2017 23:48

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.0  | 29.6  | 44.4  |
| 170     | 23.2  | 19.8  | 29.8  |





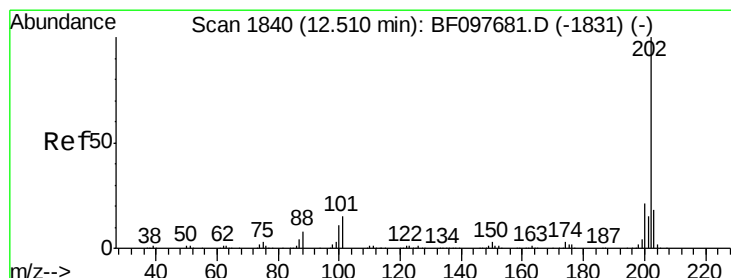
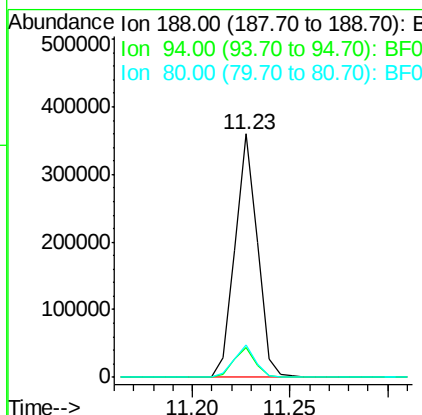
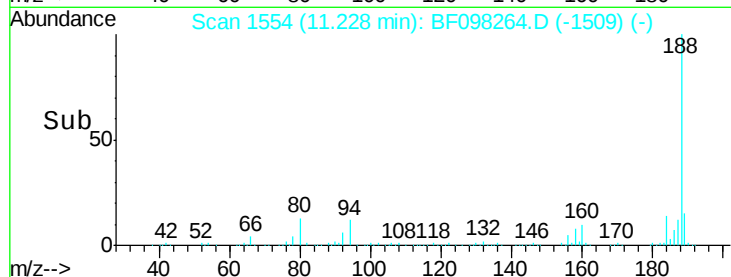
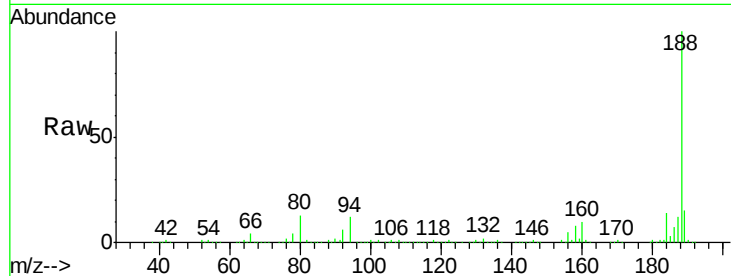
#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.23 min Scan# 1554  
Delta R.T. -0.04 min  
Lab File: BF098264.D  
Acq: 2 Sep 2017 23:48

Instrument :  
BNA\_F  
ClientSampleId :  
HR-06-083117

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 188     | 100   | 287311 |       |       |
| 94      | 12.4  | 9.4    | 14.2  |       |
| 80      | 13.1  | 10.2   | 15.2  |       |

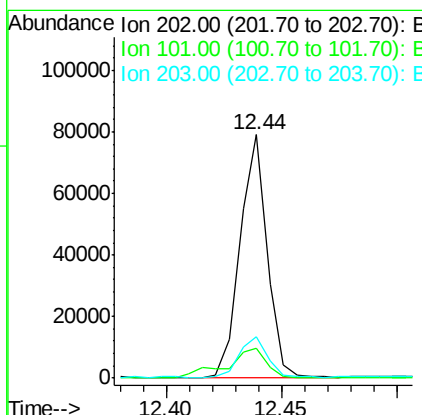
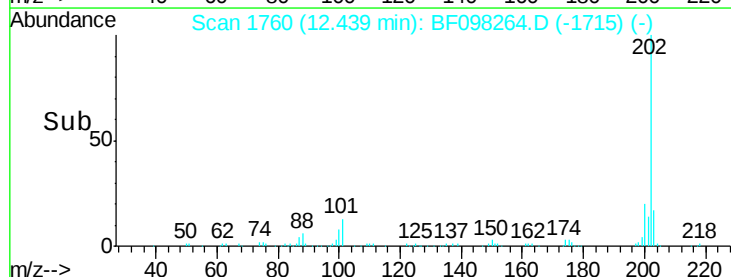
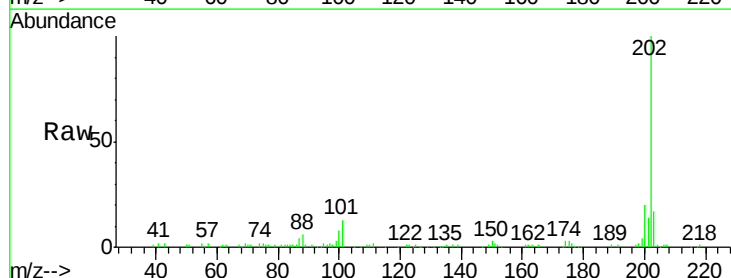
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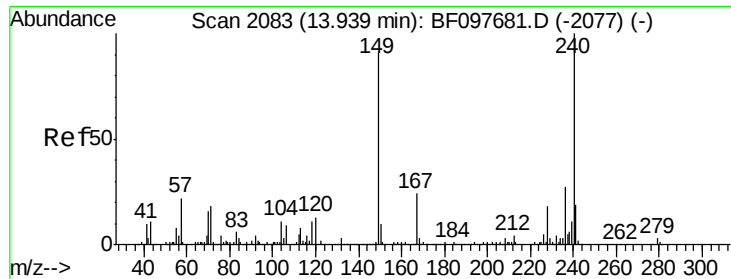
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#74  
Fluoranthene  
Concen: 4.072 ng  
RT: 12.44 min Scan# 1760  
Delta R.T. -0.04 min  
Lab File: BF098264.D  
Acq: 2 Sep 2017 23:48

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 202     | 100   | 65071 |       |       |
| 101     | 12.5  | 0.0   | 33.2  |       |
| 203     | 17.0  | 0.0   | 38.1  |       |





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.86 min Scan# 2002

Delta R.T. -0.04 min

Lab File: BF098264.D

Acq: 2 Sep 2017 23:48

Instrument :

BNA\_F

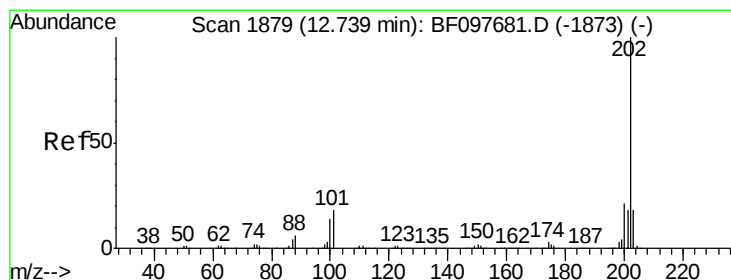
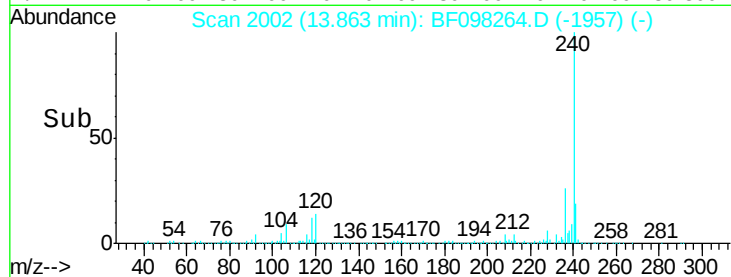
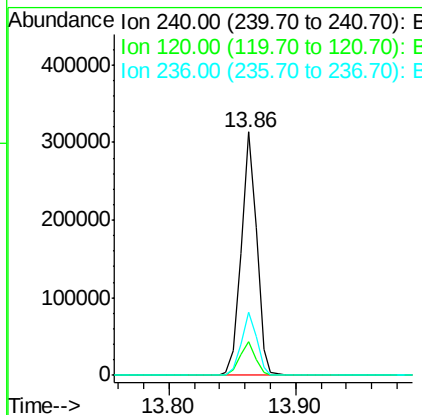
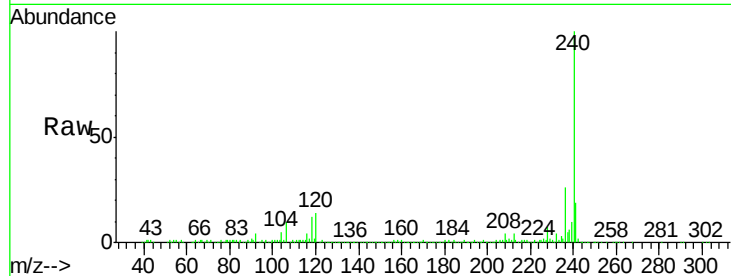
ClientSampleId :

HR-06-083117

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 240     | 100   | 261968 |       |       |
| 120     | 14.0  | 5.8    | 8.8#  |       |
| 236     | 25.7  | 20.5   | 30.7  |       |

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#77

Pyrene

Concen: 3.196 ng

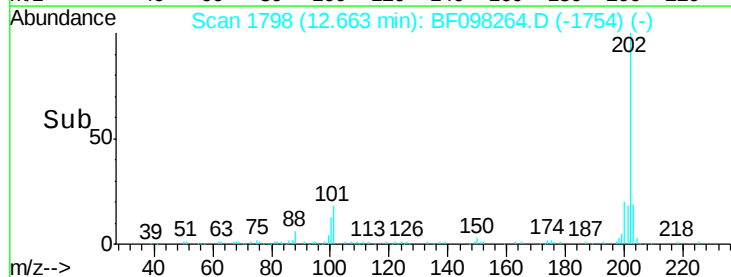
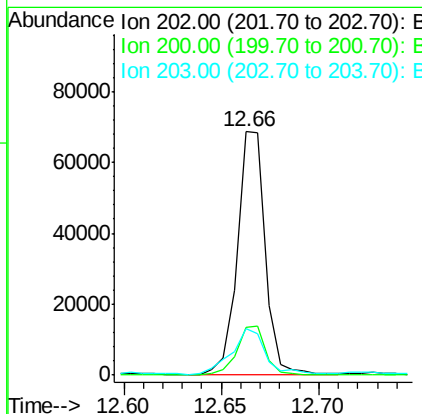
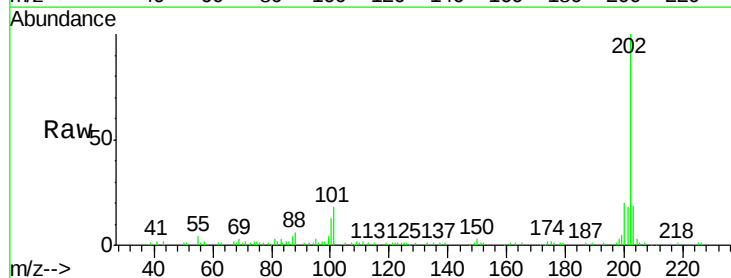
RT: 12.66 min Scan# 1798

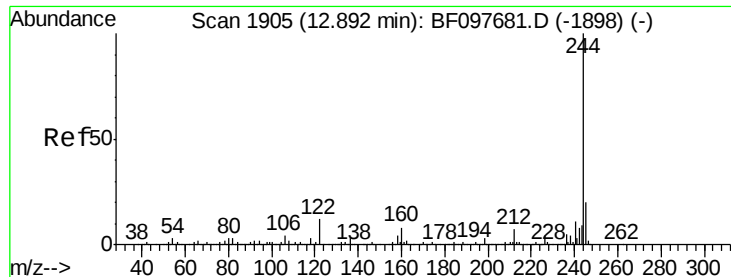
Delta R.T. -0.04 min

Lab File: BF098264.D

Acq: 2 Sep 2017 23:48

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 202     | 100   | 68479 |       |       |
| 200     | 19.5  | 17.6  | 26.4  |       |
| 203     | 19.2  | 14.4  | 21.6  |       |





#78

Terphenyl-d14

Concen: 11.572 ng

RT: 12.81 min Scan# 1823

Delta R.T. -0.04 min

Lab File: BF098264.D

Acq: 2 Sep 2017 23:48

Instrument :

BNA\_F

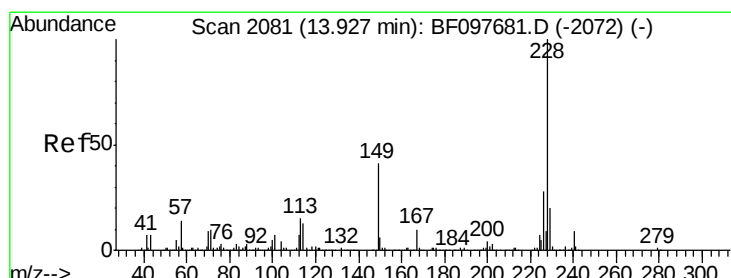
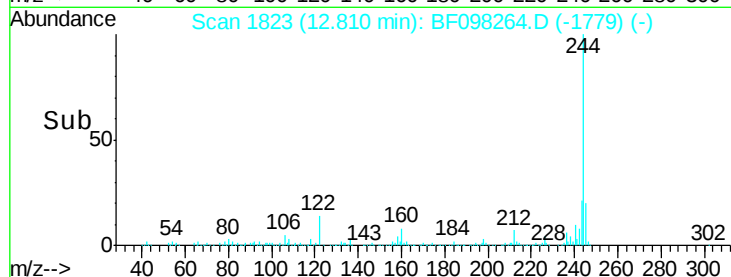
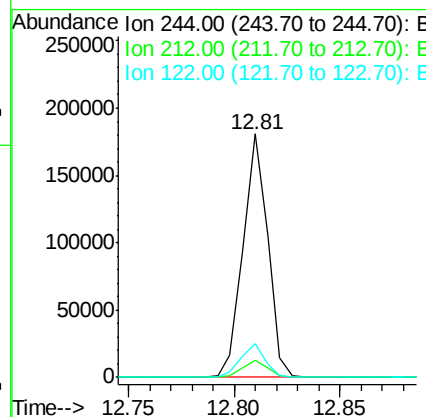
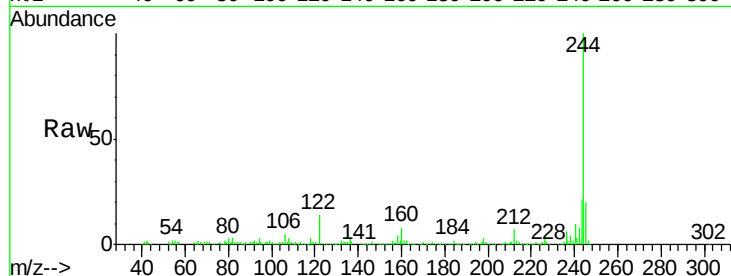
ClientSampleId :

HR-06-083117

|           |      |       |        |
|-----------|------|-------|--------|
| Tgt Ion:  | 244  | Resp: | 145368 |
| Ion Ratio |      | Lower | Upper  |
| 244       | 100  |       |        |
| 212       | 7.1  | 6.0   | 9.0    |
| 122       | 13.6 | 10.3  | 15.5   |

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#80

Benzo(a)anthracene

Concen: 4.798 ng

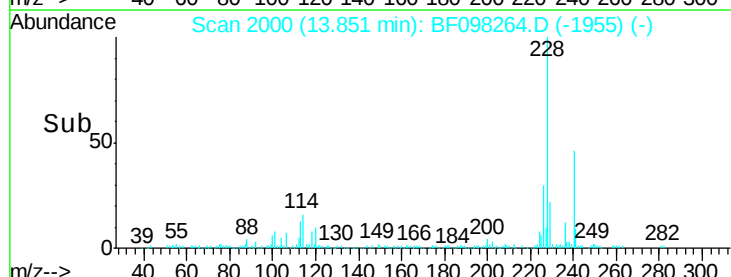
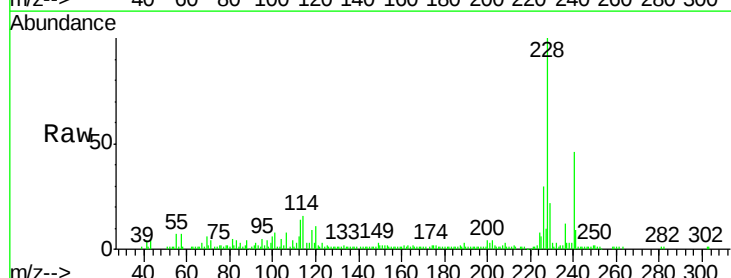
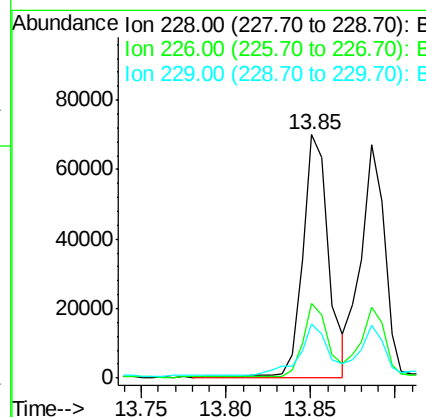
RT: 13.85 min Scan# 2000

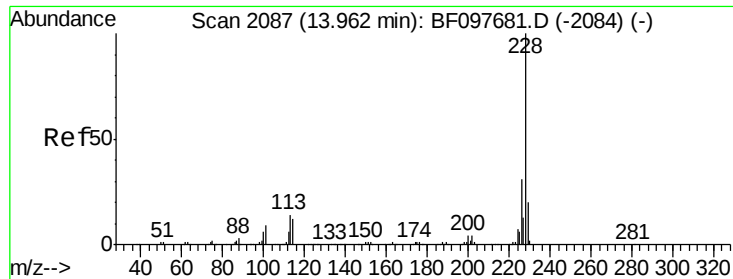
Delta R.T. -0.04 min

Lab File: BF098264.D

Acq: 2 Sep 2017 23:48

|           |      |       |       |
|-----------|------|-------|-------|
| Tgt Ion:  | 228  | Resp: | 75332 |
| Ion Ratio |      | Lower | Upper |
| 228       | 100  |       |       |
| 226       | 30.5 | 22.6  | 33.8  |
| 229       | 22.3 | 16.3  | 24.5  |





#82

Chrysene

Concen: 4.284 ng

RT: 13.89 min Scan# 2006

Delta R.T. -0.04 min

Lab File: BF098264.D

Acq: 2 Sep 2017 23:48

Instrument :

BNA\_F

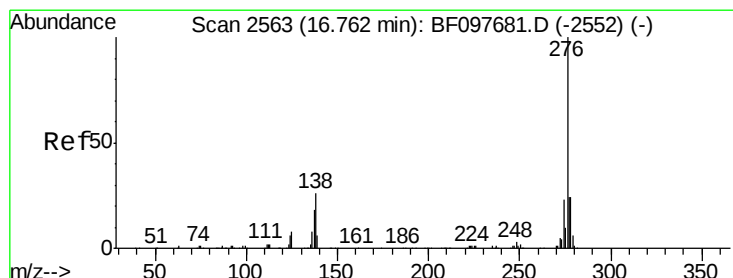
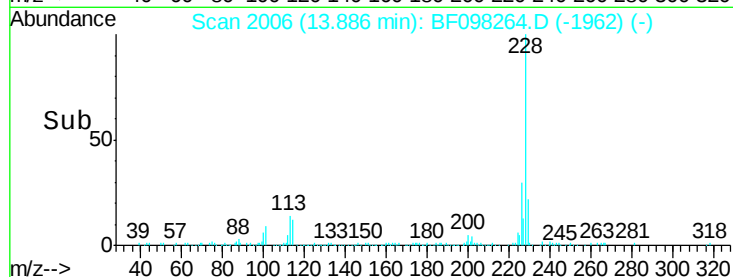
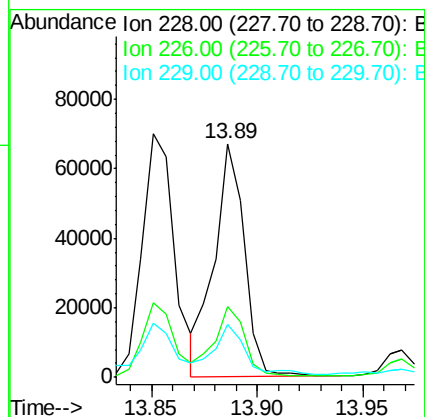
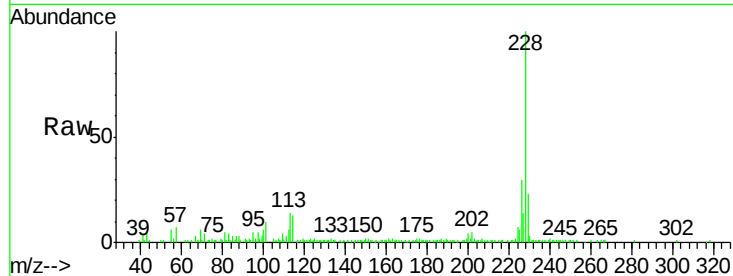
ClientSampleId :

HR-06-083117

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 228   | Resp: | 66907 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 30.3  | 24.9  | 37.3  |
| 229       | 22.8  | 15.8  | 23.6  |

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#85

Indeno(1,2,3-cd)pyrene

Concen: 2.352 ng

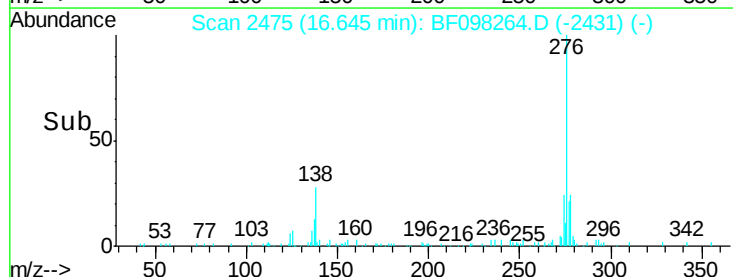
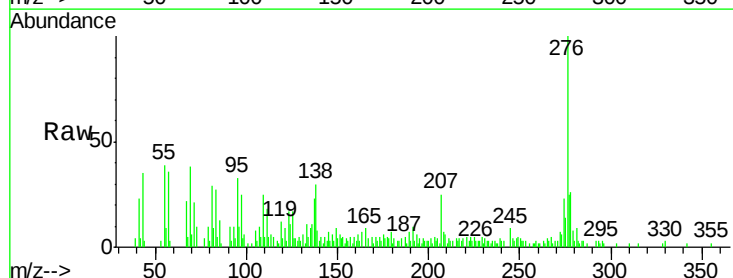
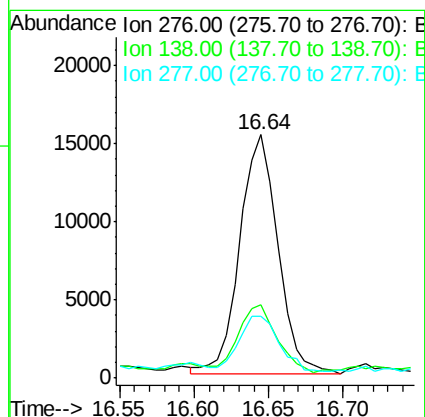
RT: 16.64 min Scan# 2475

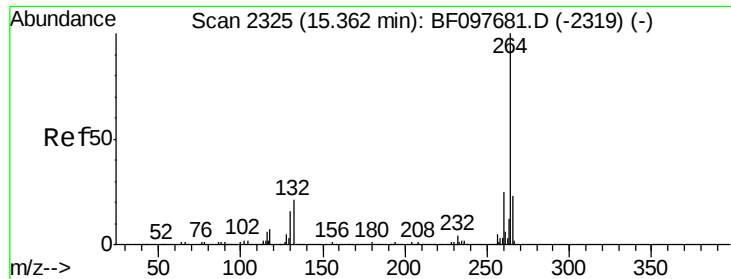
Delta R.T. -0.04 min

Lab File: BF098264.D

Acq: 2 Sep 2017 23:48

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 27029 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 28.3  | 27.8  | 41.6  |
| 277       | 23.8  | 20.2  | 30.4  |





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.28 min Scan# 2243

Delta R.T. -0.03 min

Lab File: BF098264.D

Acq: 2 Sep 2017 23:48

Instrument :

BNA\_F

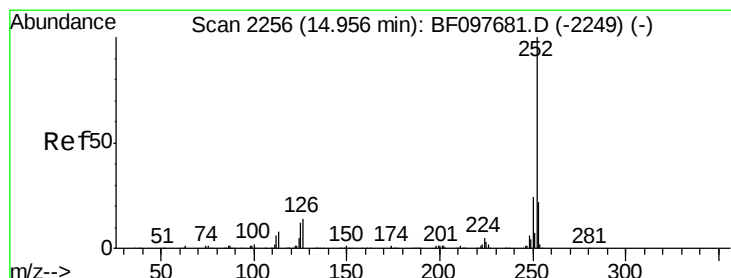
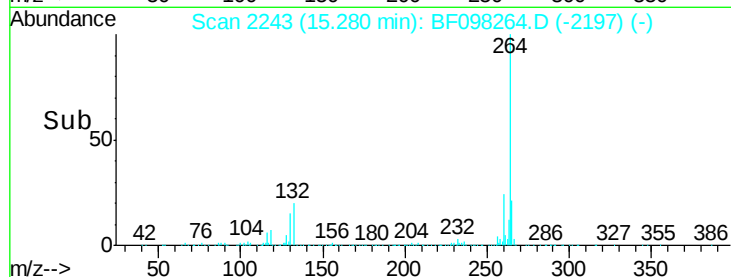
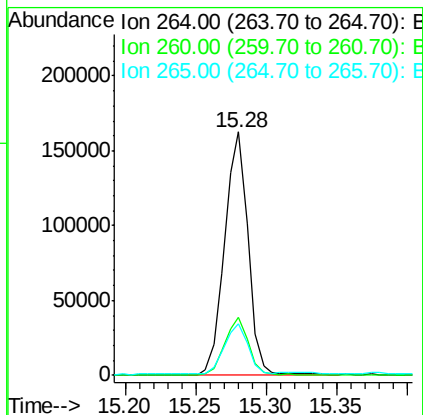
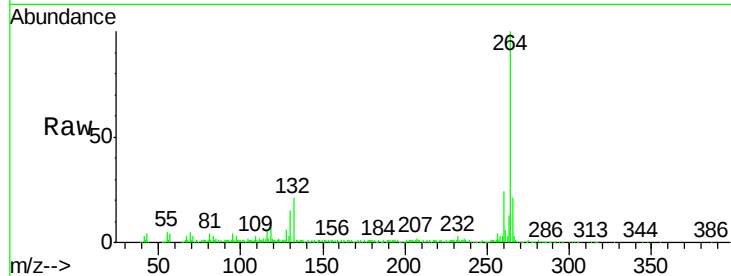
ClientSampleId :

HR-06-083117

|           |      |       |        |
|-----------|------|-------|--------|
| Tgt Ion:  | 264  | Resp: | 186707 |
| Ion Ratio |      | Lower | Upper  |
| 264       | 100  |       |        |
| 260       | 23.8 | 19.5  | 29.3   |
| 265       | 21.3 | 17.2  | 25.8   |

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#87

Benzo(b)fluoranthene

Concen: 7.267 ng m

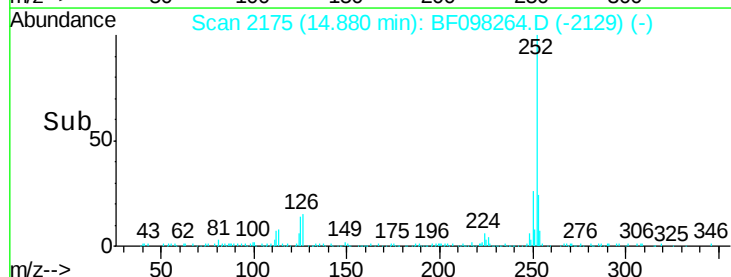
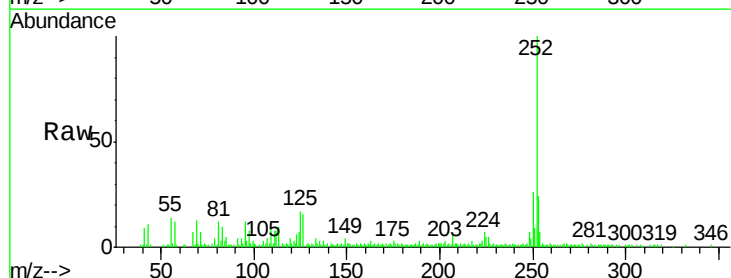
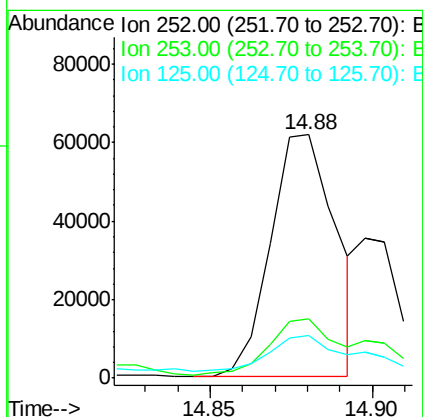
RT: 14.88 min Scan# 2175

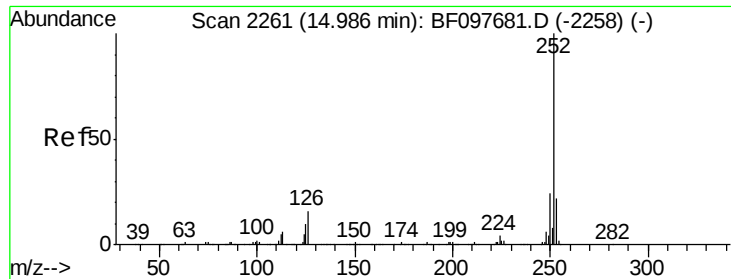
Delta R.T. -0.03 min

Lab File: BF098264.D

Acq: 2 Sep 2017 23:48

|           |      |       |       |
|-----------|------|-------|-------|
| Tgt Ion:  | 252  | Resp: | 85524 |
| Ion Ratio |      | Lower | Upper |
| 252       | 100  |       |       |
| 253       | 24.3 | 18.1  | 27.1  |
| 125       | 17.4 | 9.8   | 14.8# |





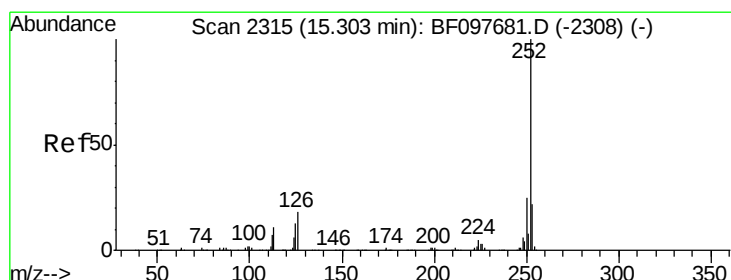
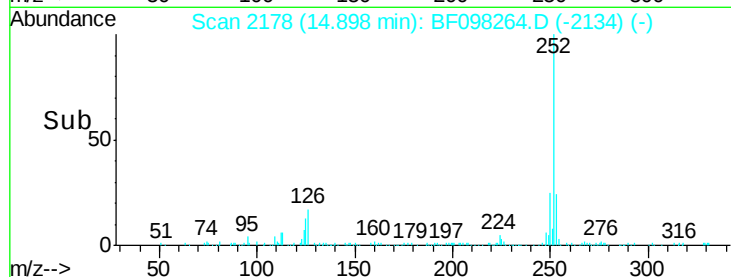
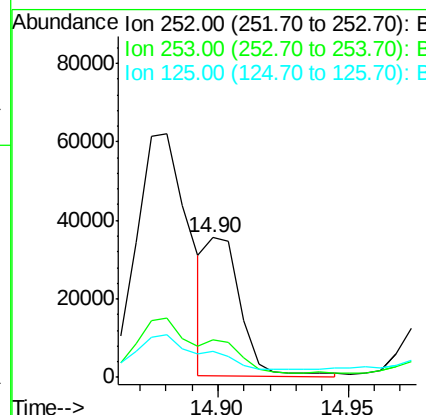
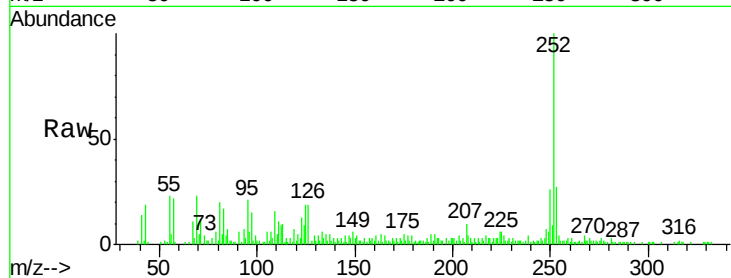
#88  
Benzo(k)fluoranthene  
Concen: 2.871 ng m  
RT: 14.90 min Scan# 2178  
Delta R.T. -0.04 min  
Lab File: BF098264.D  
Acq: 2 Sep 2017 23:48

Instrument :  
BNA\_F  
ClientSampleId :  
HR-06-083117

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 27.2  | 18.4  | 27.6  |
| 125     | 18.8  | 13.1  | 19.7  |

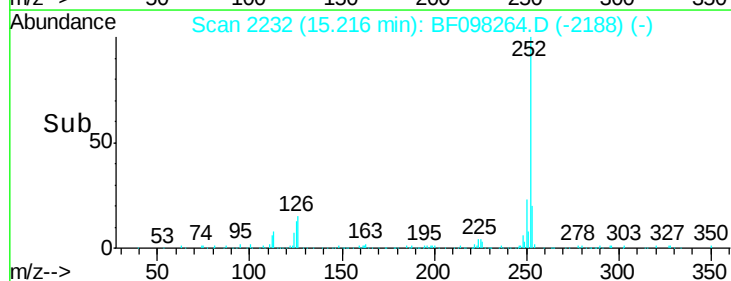
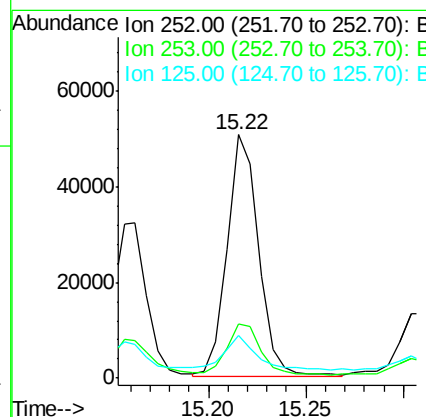
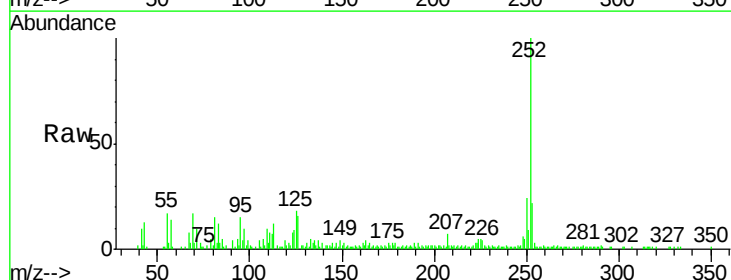
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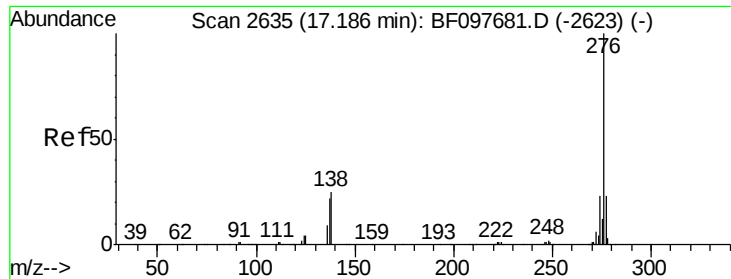
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#89  
Benzo(a)pyrene  
Concen: 5.409 ng  
RT: 15.22 min Scan# 2232  
Delta R.T. -0.04 min  
Lab File: BF098264.D  
Acq: 2 Sep 2017 23:48

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.1  | 17.5  | 26.3  |
| 125     | 17.8  | 11.0  | 16.4# |





#91  
 Benzo(g,h,i)perylene  
 Concen: 2.845 ng  
 RT: 17.06 min Scan# 2545  
 Delta R.T. -0.05 min  
 Lab File: BF098264.D  
 Acq: 2 Sep 2017 23:48

Instrument :  
 BNA\_F  
 ClientSampleId :  
 HR-06-083117

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 29.6  | 18.6  | 28.0# |
| 138     | 30.9  | 25.4  | 38.0  |

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