

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE113018\  
 Data File : BE098289.D  
 Acq On : 30 Nov 2018 16:37  
 Operator : SJ/JU  
 Sample : J6117-01  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 W-1

Manual Integrations  
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 12/3/2018 3:34:01 PM

Quant Time: Dec 03 10:52:04 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE112918.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Nov 29 13:50:43 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.86  | 152  | 1603     | 0.40 | ng    | 0.00     |
| 7) Naphthalene-d8         | 10.67 | 136  | 6721     | 0.40 | ng    | 0.00     |
| 13) Acenaphthene-d10      | 14.53 | 164  | 4241     | 0.40 | ng    | 0.00     |
| 19) Phenanthrene-d10      | 17.28 | 188  | 9846     | 0.40 | ng    | 0.00     |
| 27) Chrysene-d12          | 21.46 | 240  | 10482    | 0.40 | ng    | 0.00     |
| 34) Perylene-d12          | 24.01 | 264  | 10174    | 0.40 | ng    | 0.00     |

|                             |       |     |       |      |    |      |
|-----------------------------|-------|-----|-------|------|----|------|
| System Monitoring Compounds |       |     |       |      |    |      |
| 4) 2-Fluorophenol           | 5.46  | 112 | 813   | 0.19 | ng | 0.01 |
| 5) Phenol-d6                | 7.05  | 99  | 834   | 0.14 | ng | 0.00 |
| 8) Nitrobenzene-d5          | 9.03  | 82  | 2394  | 0.35 | ng | 0.01 |
| 11) 2-Methylnaphthalene-d10 | 12.27 | 152 | 4416  | 0.40 | ng | 0.00 |
| 14) 2,4,6-Tribromophenol    | 16.02 | 330 | 649   | 0.32 | ng | 0.00 |
| 15) 2-Fluorobiphenyl        | 13.15 | 172 | 8012  | 0.46 | ng | 0.00 |
| 25) Fluoranthene-d10        | 19.31 | 212 | 51873 | 0.39 | ng | 0.00 |
| 29) Terphenyl-d14           | 19.91 | 244 | 9162  | 0.39 | ng | 0.00 |

|                                |       |     |       |       |    |        |
|--------------------------------|-------|-----|-------|-------|----|--------|
| Target Compounds               |       |     |       |       |    | Qvalue |
| 9) Naphthalene                 | 10.72 | 128 | 2058  | 0.030 | ng | # 88   |
| 12) 2-Methylnaphthalene        | 12.34 | 142 | 377   | 0.034 | ng | # 88   |
| 16) Acenaphthylene             | 14.25 | 152 | 597   | 0.030 | ng | # 71   |
| 17) Acenaphthene               | 14.59 | 154 | 356   | 0.030 | ng | 96     |
| 18) Fluorene                   | 15.57 | 166 | 458   | 0.029 | ng | # 85   |
| 23) Phenanthrene               | 17.32 | 178 | 974   | 0.040 | ng | 93     |
| 24) Anthracene                 | 17.41 | 178 | 622   | 0.027 | ng | 98     |
| 26) Fluoranthene               | 19.34 | 202 | 950   | 0.028 | ng | 96     |
| 28) Pyrene                     | 19.70 | 202 | 1529  | 0.053 | ng | 99     |
| 30) Benzo(a)anthracene         | 21.45 | 228 | 939   | 0.030 | ng | # 80   |
| 31) Chrysene                   | 21.50 | 228 | 991   | 0.032 | ng | # 83   |
| 32) Bis(2-ethylhexyl)phthalate | 21.37 | 149 | 6299  | 0.085 | ng | 100    |
| 33) Indeno(1,2,3-cd)pyrene     | 26.70 | 276 | 1040m | 0.033 | ng |        |
| 35) Benzo(b)fluoranthene       | 23.24 | 252 | 1289  | 0.043 | ng | # 1    |
| 36) Benzo(k)fluoranthene       | 23.28 | 252 | 1048  | 0.033 | ng | # 34   |
| 37) Benzo(a)pyrene             | 23.90 | 252 | 1071  | 0.037 | ng | # 1    |
| 38) Dibenzo(a,h)anthracene     | 26.73 | 278 | 845   | 0.031 | ng | # 19   |
| 39) Benzo(a,h,i)perylene       | 27.53 | 276 | 852   | 0.031 | ng | # 59   |

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

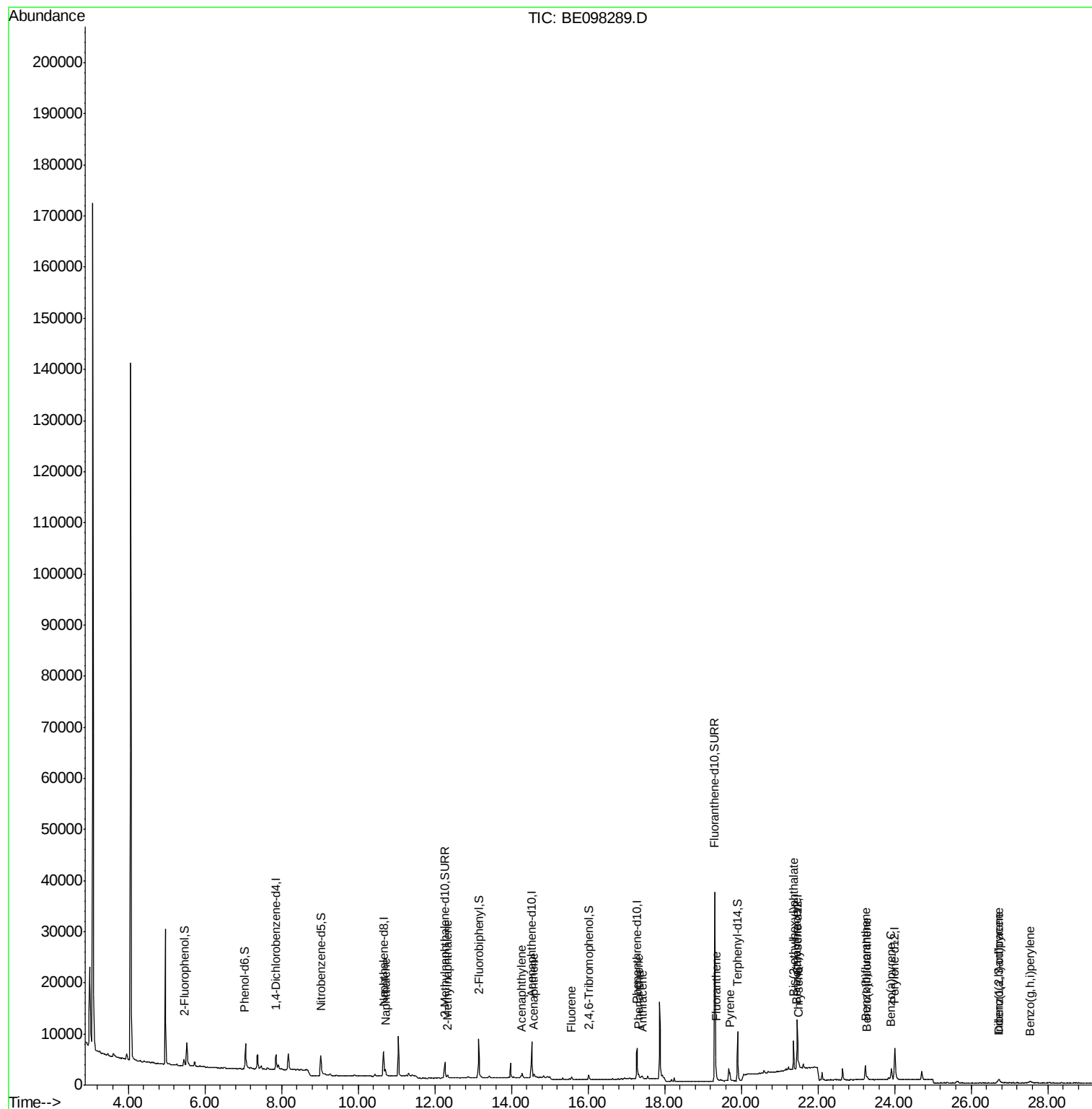
Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE113018\  
Data File : BE098289.D  
Acq On : 30 Nov 2018 16:37  
Operator : SJ/JU  
Sample : J6117-01  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

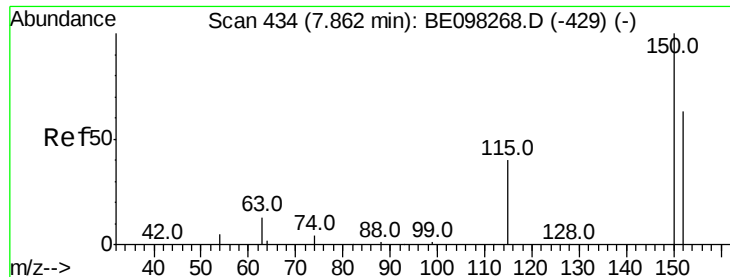
Instrument :  
BNA\_E  
ClientSampleId :  
W-1

Quant Time: Dec 03 10:52:04 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE112918.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Nov 29 13:50:43 2018  
Response via : Initial Calibration

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#1

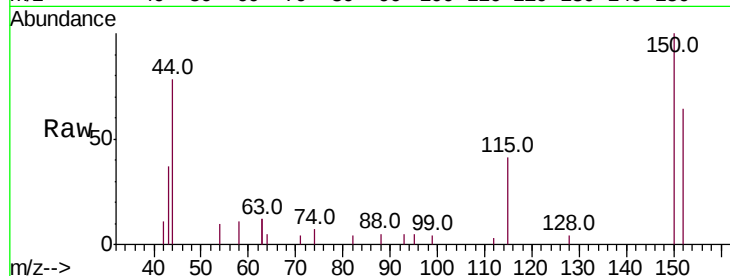
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.86 min Scan# 434  
Delta R.T. 0.00 min  
Lab File: BE098289.D  
Acq: 30 Nov 2018 16:37

Instrument :  
BNA\_E  
ClientSampleId :  
W-1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 155.7 | 124.2 | 186.4 |
| 115     | 64.2  | 53.9  | 80.9  |

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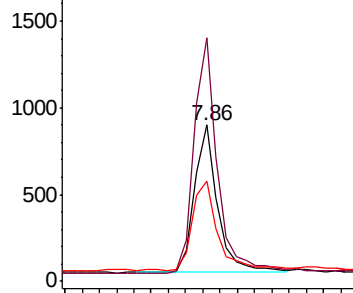


Abundance

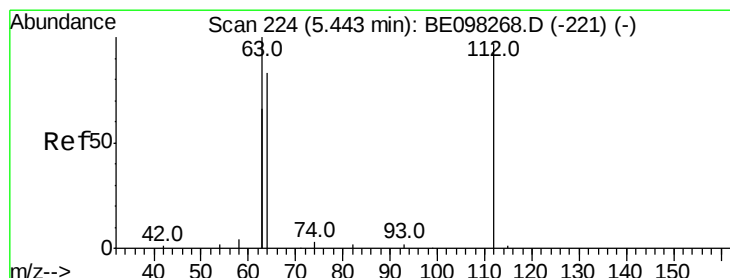
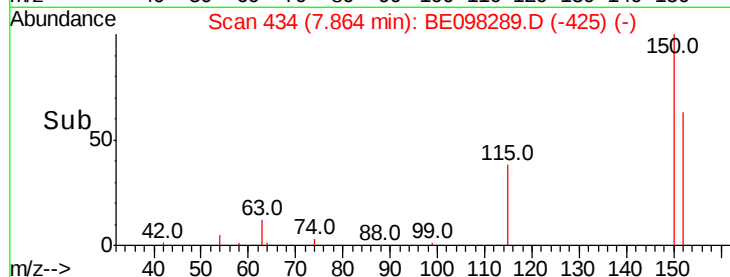
Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



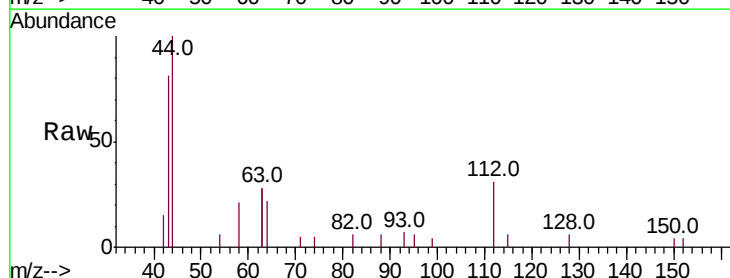
Time-->



#4

2-Fluorophenol  
Concen: 0.190 ng  
RT: 5.46 min Scan# 225  
Delta R.T. 0.01 min  
Lab File: BE098289.D  
Acq: 30 Nov 2018 16:37

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 77.7  | 59.8  | 89.8  |
| 63      | 186.6 | 133.7 | 200.5 |

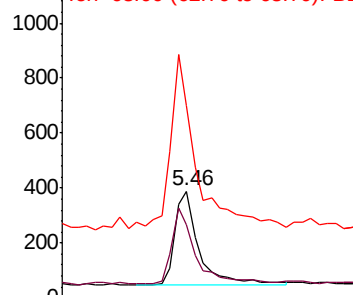


Abundance

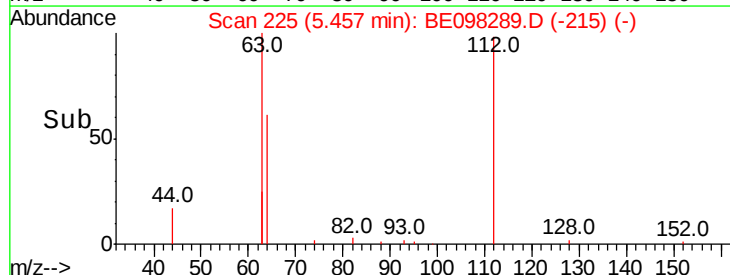
Ion 112.00 (111.70 to 112.70): E

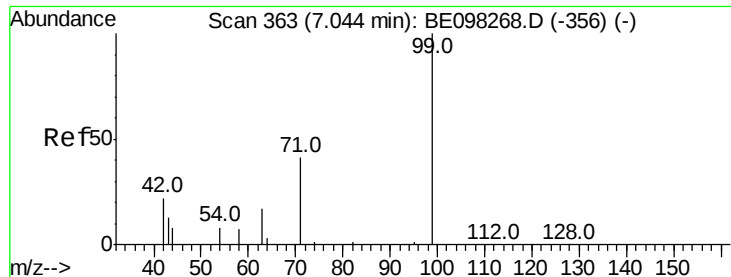
Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0



Time-->





#5

Phenol-d6

Concen: 0.138 ng

RT: 7.05 min Scan# 363

Delta R.T. 0.00 min

Lab File: BE098289.D

Acq: 30 Nov 2018 16:37

Instrument :

BNA\_E

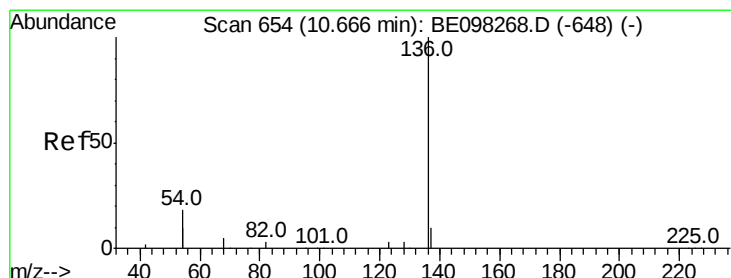
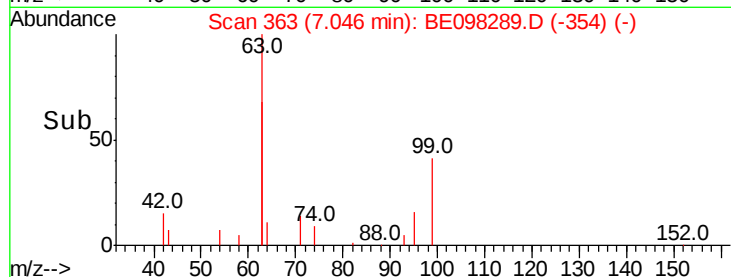
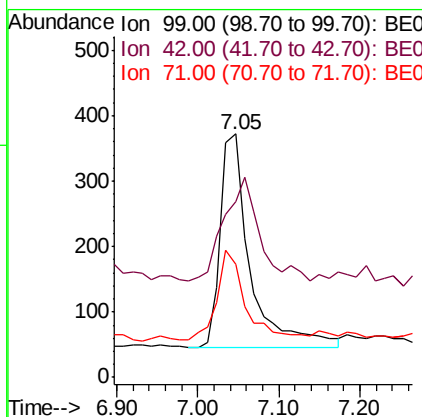
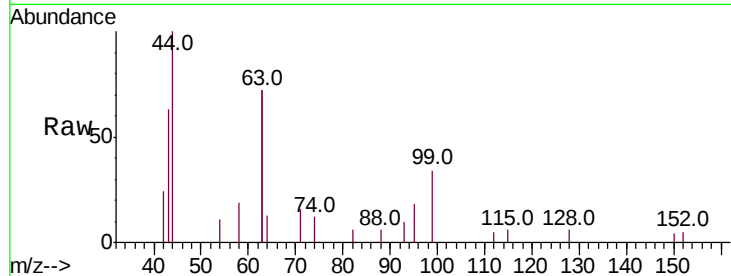
ClientSampleId :

W-1

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 99    | Resp: | 834   |
| Ion      | Ratio | Lower | Upper |
| 99       | 100   |       |       |
| 42       | 58.4  | 26.3  | 39.5# |
| 71       | 0.0   | 33.6  | 50.4# |

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#7

Naphthalene-d8

Concen: 0.400 ng

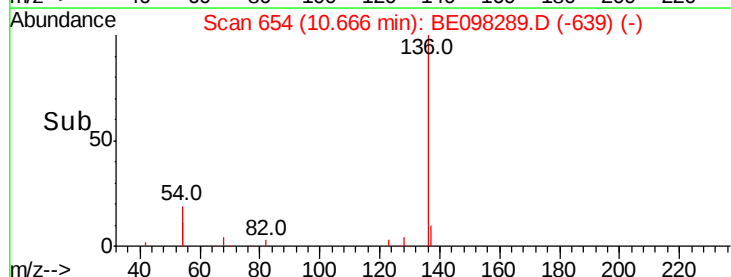
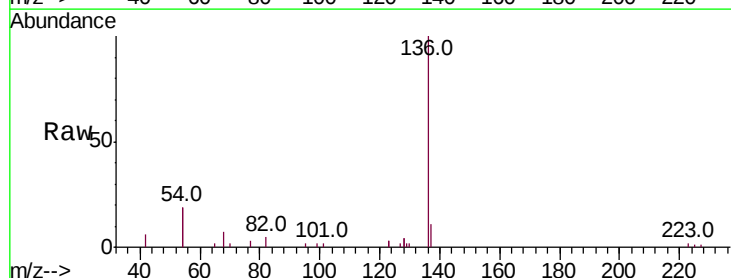
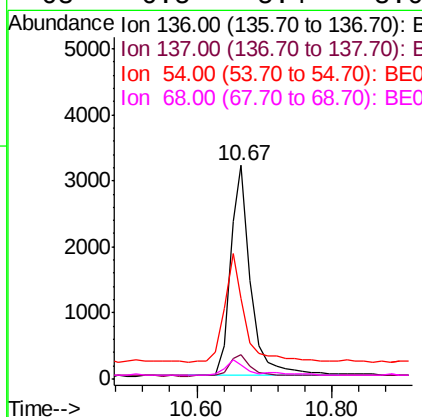
RT: 10.67 min Scan# 654

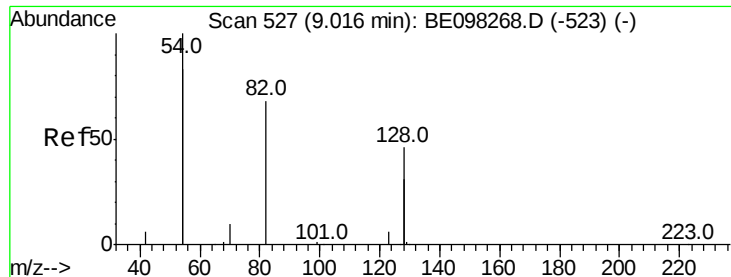
Delta R.T. 0.00 min

Lab File: BE098289.D

Acq: 30 Nov 2018 16:37

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 6721  |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 11.3  | 9.2   | 13.8  |
| 54       | 37.9  | 28.4  | 42.6  |
| 68       | 6.5   | 5.4   | 8.0   |





#8

Nitrobenzene-d5

Concen: 0.352 ng

RT: 9.03 min Scan# 528

Delta R.T. 0.01 min

Lab File: BE098289.D

Acq: 30 Nov 2018 16:37

Instrument :

BNA\_E

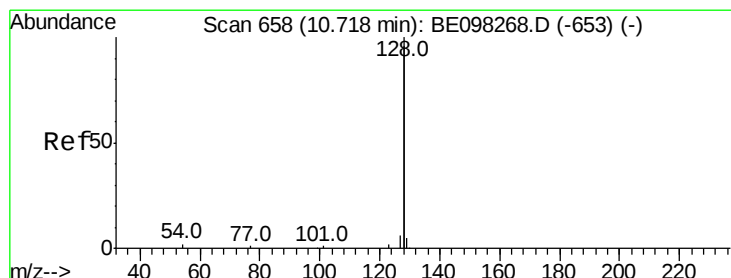
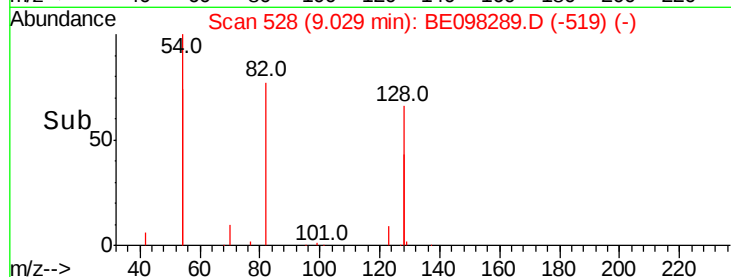
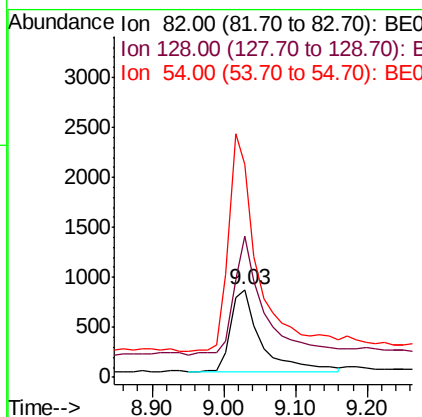
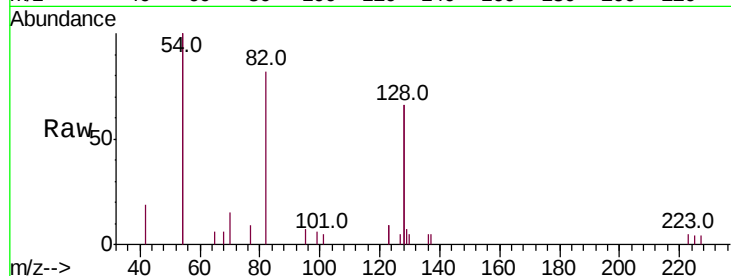
ClientSampled :

W-1

| Tot Ion | 82.00 | Resp  | 2394   |
|---------|-------|-------|--------|
| Ion     | Ratio | Lower | Upper  |
| 82      | 100   |       |        |
| 128     | 160.8 | 102.4 | 153.6# |
| 54      | 243.1 | 221.8 | 332.8  |

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#9

Naphthalene

Concen: 0.030 ng

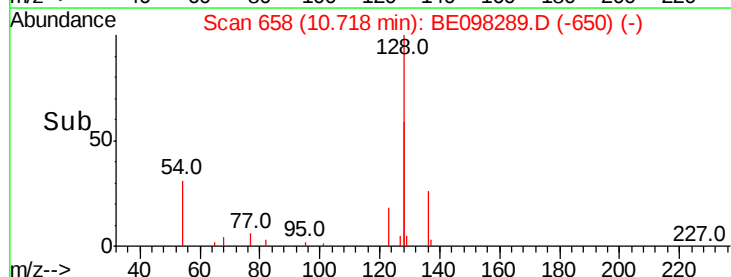
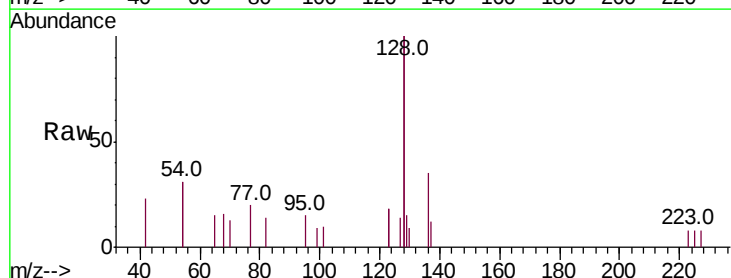
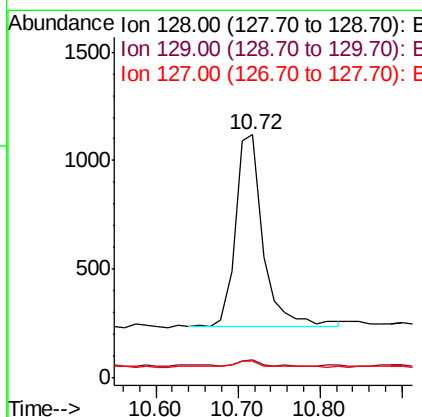
RT: 10.72 min Scan# 658

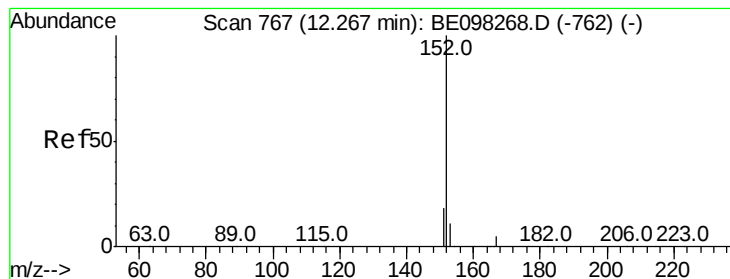
Delta R.T. 0.00 min

Lab File: BE098289.D

Acq: 30 Nov 2018 16:37

| Tgt Ion | 128.00 | Resp  | 2058  |
|---------|--------|-------|-------|
| Ion     | Ratio  | Lower | Upper |
| 128     | 100    |       |       |
| 129     | 7.4    | 2.5   | 3.7#  |
| 127     | 6.9    | 2.7   | 4.1#  |





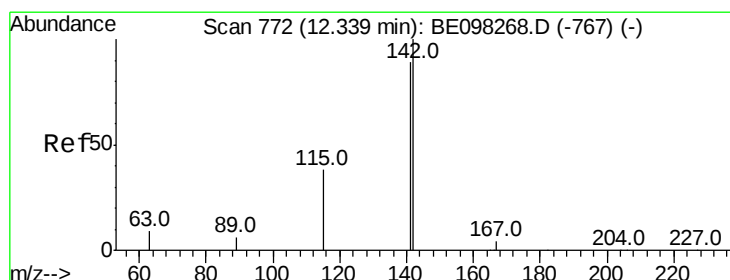
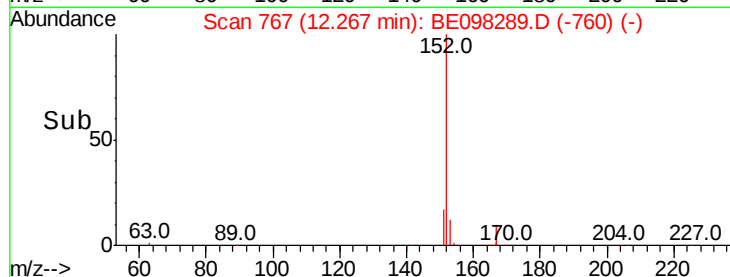
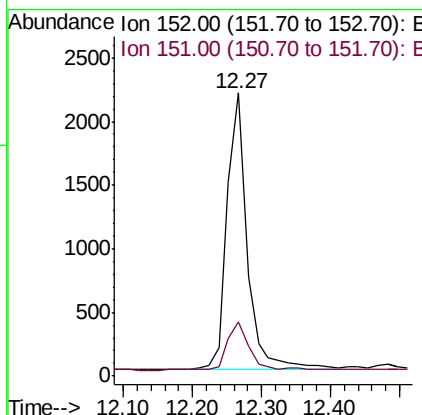
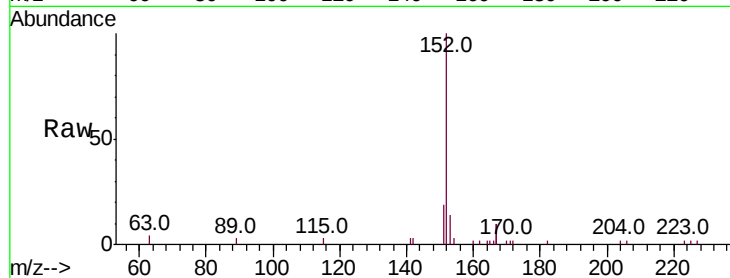
#11  
 2-Methylnaphthalene-d10  
 Concen: 0.405 ng  
 RT: 12.27 min Scan# 767  
 Delta R.T. -0.00 min  
 Lab File: BE098289.D  
 Acq: 30 Nov 2018 16:37

Instrument :  
 BNA\_E  
 ClientSampled :  
 W-1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 19.6  | 16.2  | 24.4  |

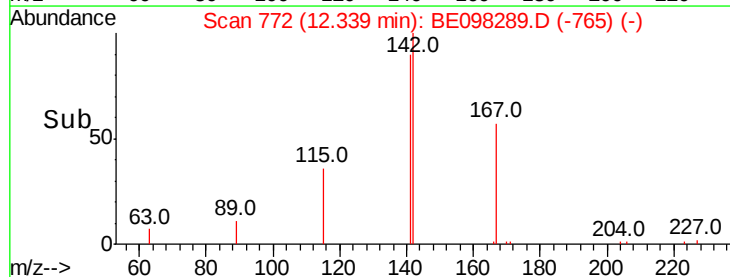
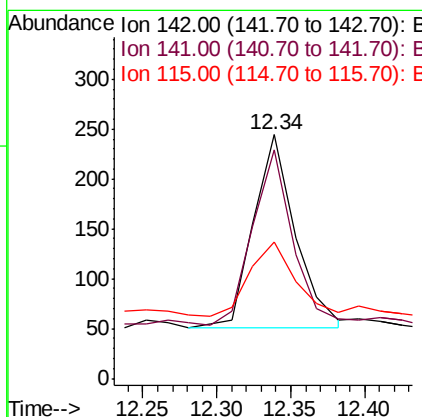
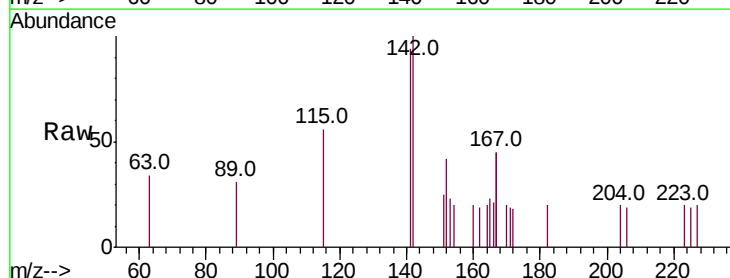
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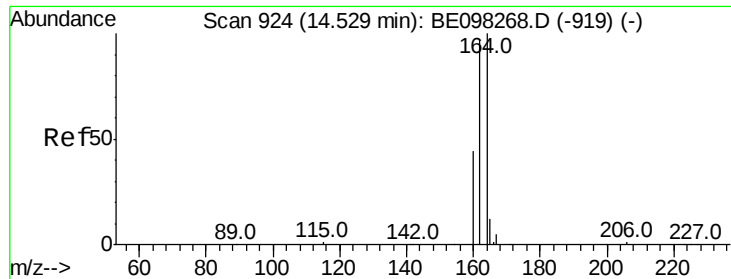
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#12  
 2-Methylnaphthalene  
 Concen: 0.034 ng  
 RT: 12.34 min Scan# 772  
 Delta R.T. -0.00 min  
 Lab File: BE098289.D  
 Acq: 30 Nov 2018 16:37

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 93.9  | 71.0  | 106.6 |
| 115     | 56.1  | 32.2  | 48.2# |





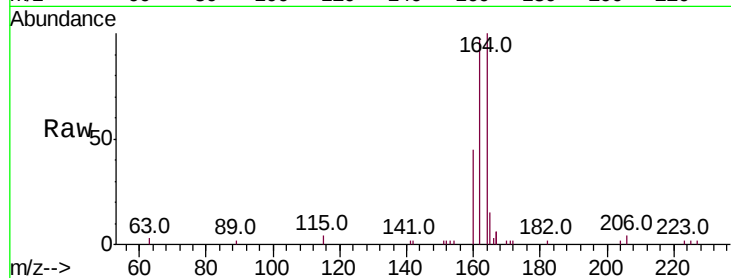
#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.53 min Scan# 924  
Delta R.T. -0.00 min  
Lab File: BE098289.D  
Acq: 30 Nov 2018 16:37

Instrument :  
BNA\_E  
ClientSampleId :  
W-1

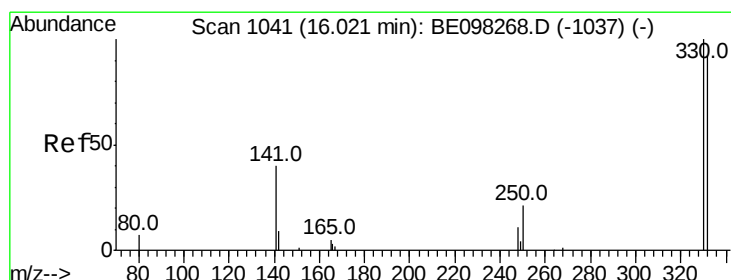
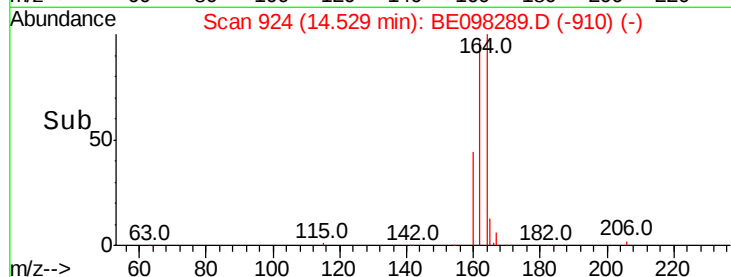
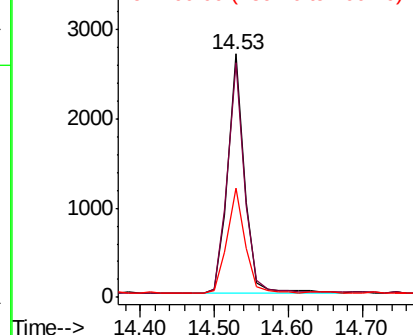
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 96.5  | 77.6  | 116.4 |
| 160     | 45.1  | 36.0  | 54.0  |

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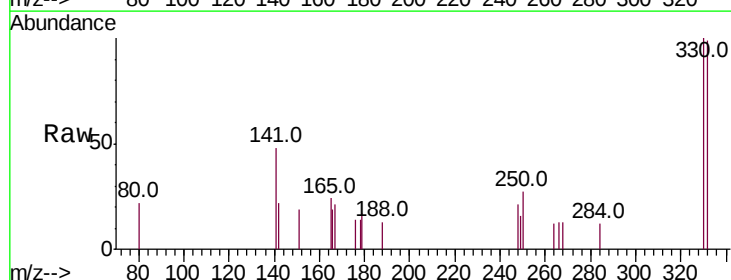


Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E

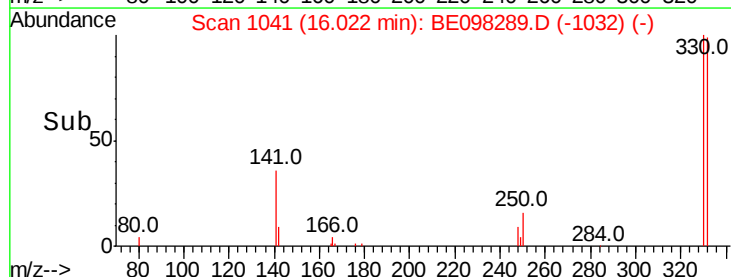
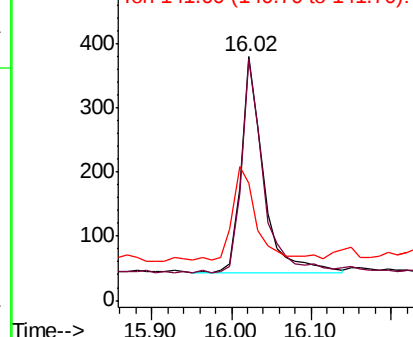


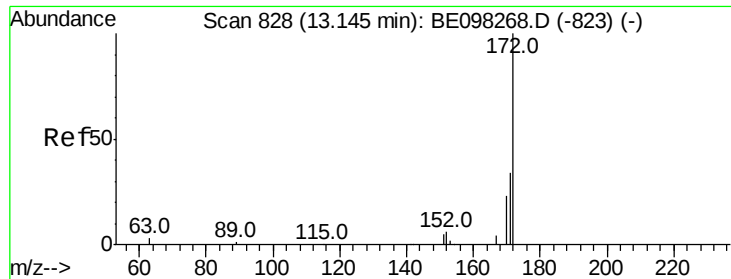
#14  
2,4,6-Tribromophenol  
Concen: 0.323 ng  
RT: 16.02 min Scan# 1041  
Delta R.T. 0.00 min  
Lab File: BE098289.D  
Acq: 30 Nov 2018 16:37

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 96.8  | 76.2  | 114.4 |
| 141     | 45.8  | 39.0  | 58.4  |



Abundance Ion 330.00 (329.70 to 330.70): E  
Ion 331.80 (331.50 to 332.50): E  
Ion 141.00 (140.70 to 141.70): E





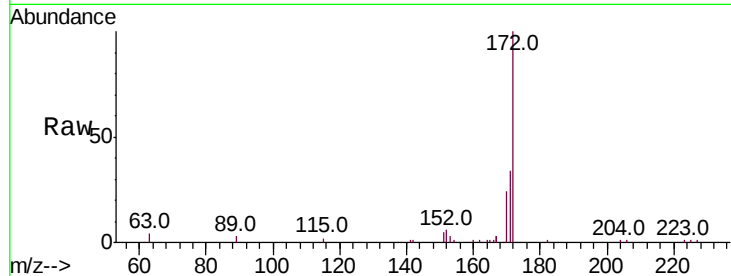
#15  
2-Fluorobiphenyl  
Concen: 0.456 ng  
RT: 13.15 min Scan# 828  
Delta R.T. -0.00 min  
Lab File: BE098289.D  
Acq: 30 Nov 2018 16:37

Instrument :  
BNA\_E  
ClientSampleId :  
W-1

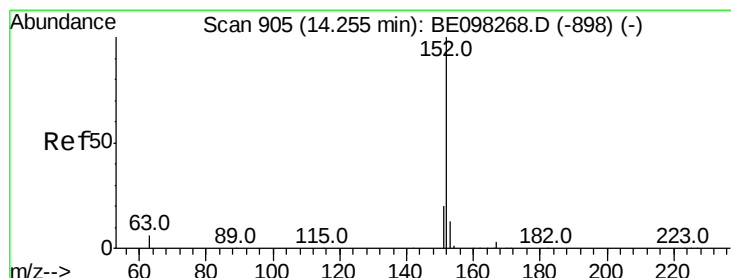
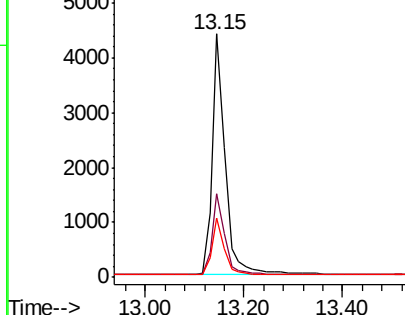
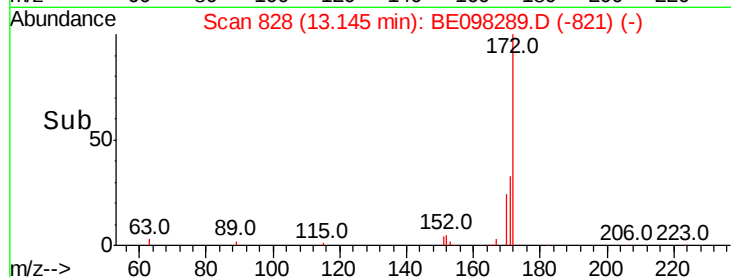
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 34.2  | 27.5  | 41.3  |
| 170     | 24.5  | 19.6  | 29.4  |

Manual Integrations  
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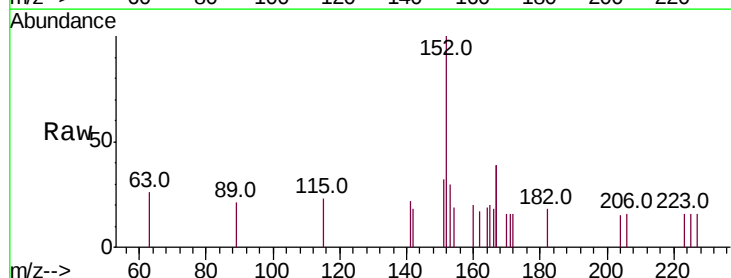


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

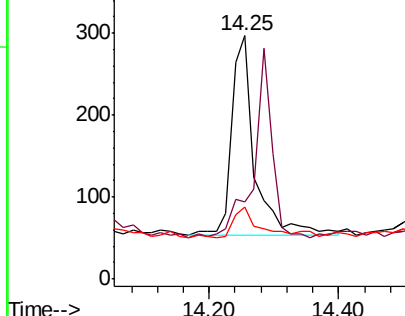
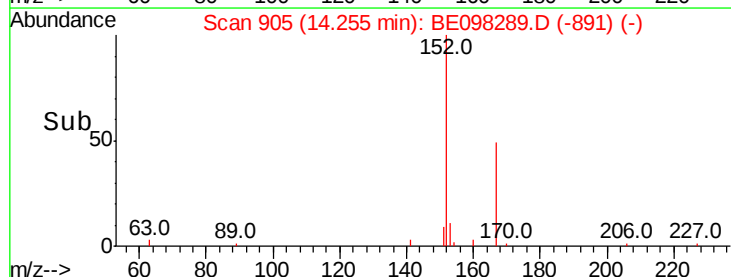


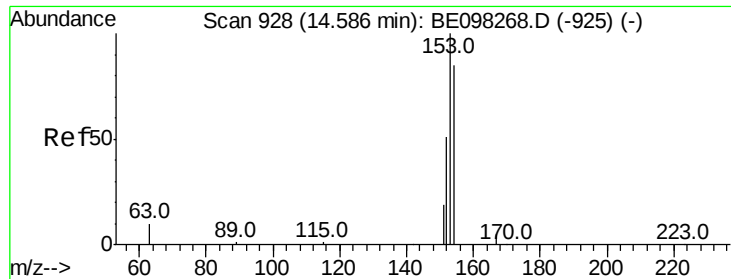
#16  
Acenaphthylene  
Concen: 0.030 ng  
RT: 14.25 min Scan# 905  
Delta R.T. -0.00 min  
Lab File: BE098289.D  
Acq: 30 Nov 2018 16:37

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 0.0   | 15.5  | 23.3# |
| 153     | 16.9  | 10.6  | 16.0# |



Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 151.00 (150.70 to 151.70): E  
Ion 153.00 (152.70 to 153.70): E





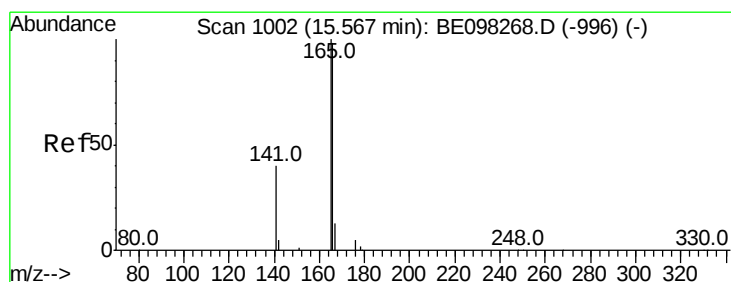
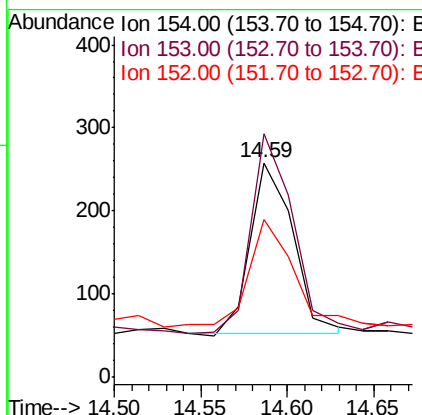
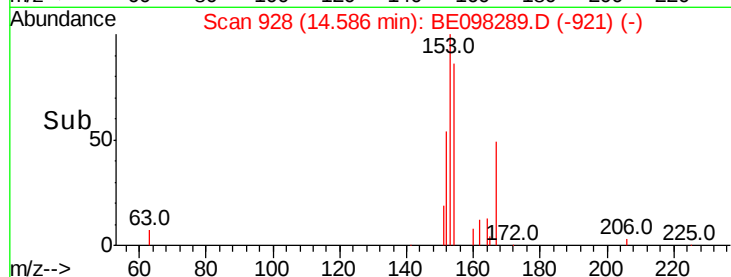
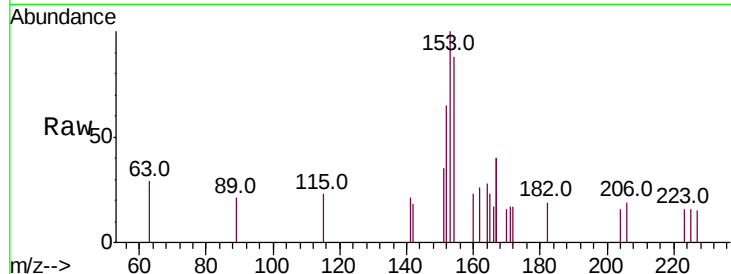
#17  
Acenaphthene  
Concen: 0.030 ng  
RT: 14.59 min Scan# 928  
Delta R.T. -0.00 min  
Lab File: BE098289.D  
Acq: 30 Nov 2018 16:37

Instrument :  
BNA\_E  
ClientSampleId :  
W-1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 154     | 100   |       |       |
| 153     | 115.2 | 91.8  | 137.6 |
| 152     | 64.6  | 45.5  | 68.3  |

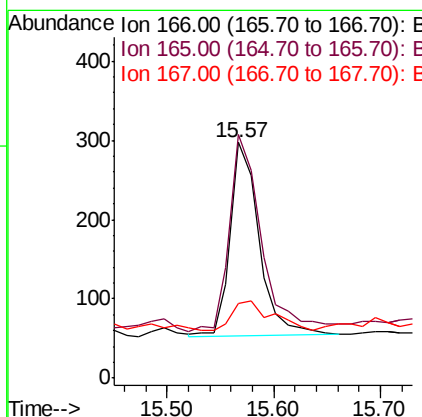
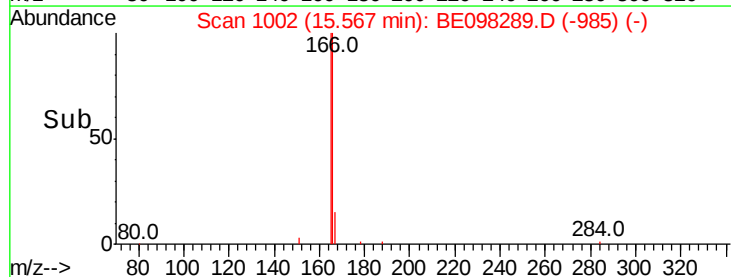
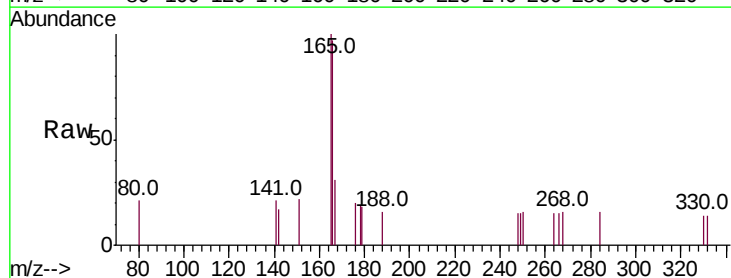
Manual Integrations  
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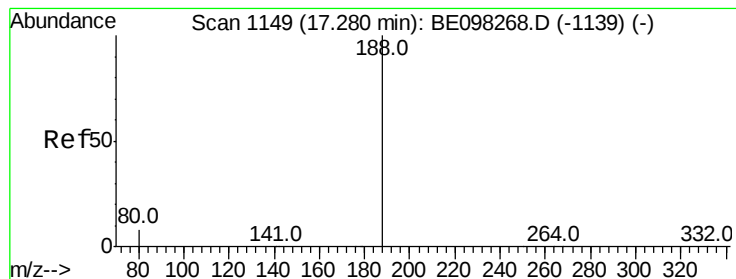
mohammad  
12/3/2018 3:34:01 PM



#18  
Fluorene  
Concen: 0.029 ng  
RT: 15.57 min Scan# 1002  
Delta R.T. 0.00 min  
Lab File: BE098289.D  
Acq: 30 Nov 2018 16:37

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 113.3 | 79.3  | 118.9 |
| 167     | 21.2  | 11.3  | 16.9# |





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.28 min Scan# 1149

Delta R.T. 0.00 min

Lab File: BE098289.D

Acq: 30 Nov 2018 16:37

Instrument :

BNA\_E

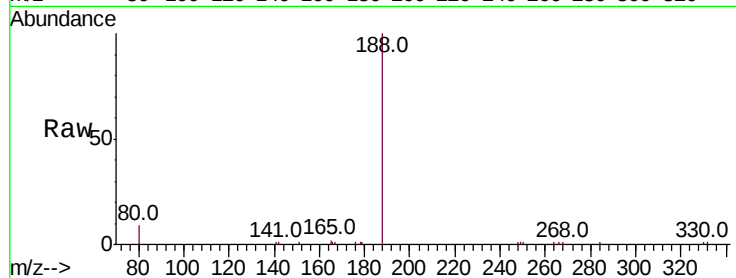
ClientSampleId :

W-1

|           |       |       |      |
|-----------|-------|-------|------|
| Tot Ion:  | 188   | Resp: | 9846 |
| Ion Ratio | Lower | Upper |      |
| 188       | 100   |       |      |
| 94        | 0.0   | 0.0   | 0.0  |
| 80        | 8.8   | 7.2   | 10.8 |

Manual Integrations  
APPROVED

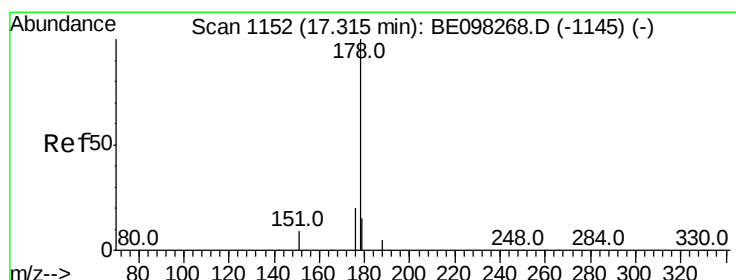
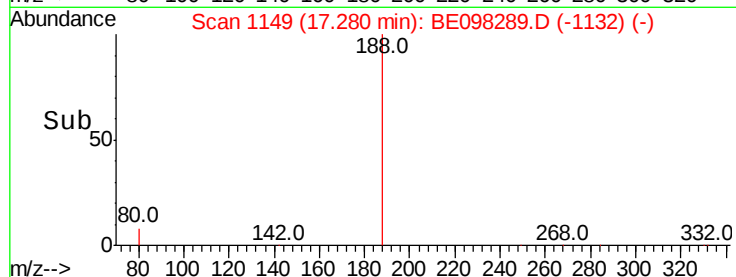
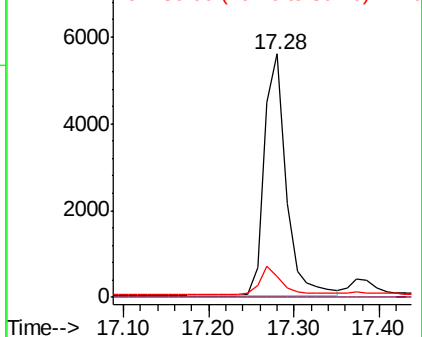
mohammad  
12/3/2018 3:34:01 PM



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0



#23

Phenanthrene

Concen: 0.040 ng

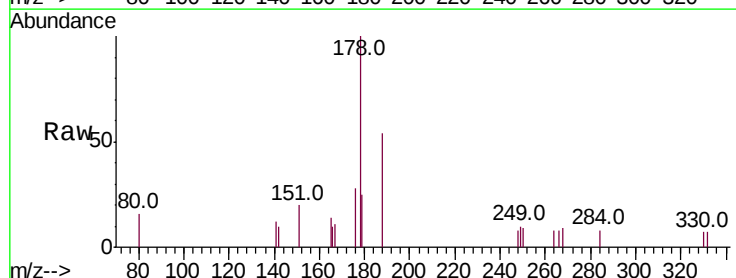
RT: 17.32 min Scan# 1152

Delta R.T. 0.00 min

Lab File: BE098289.D

Acq: 30 Nov 2018 16:37

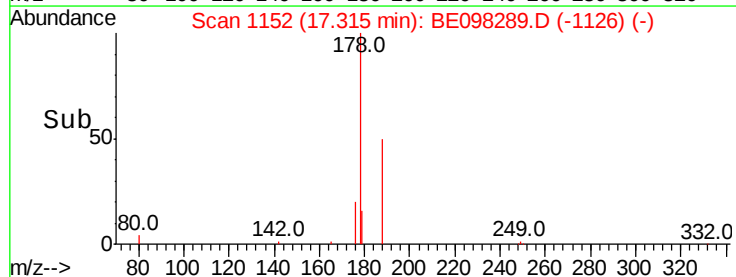
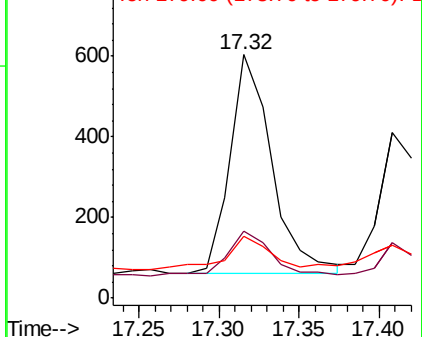
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 178   | Resp: | 974  |
| Ion Ratio | Lower | Upper |      |
| 178       | 100   |       |      |
| 176       | 22.7  | 15.9  | 23.9 |
| 179       | 18.4  | 12.3  | 18.5 |

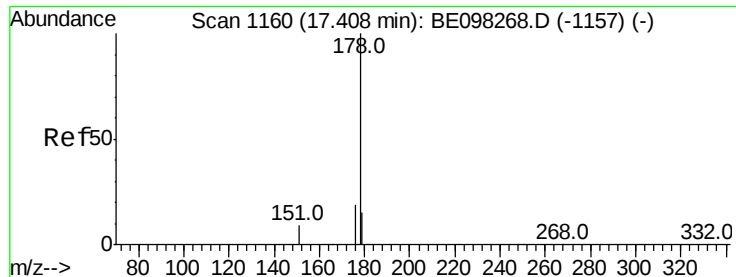


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#24

Anthracene

Concen: 0.027 ng

RT: 17.41 min Scan# 1160

Delta R.T. 0.00 min

Lab File: BE098289.D

Acq: 30 Nov 2018 16:37

Instrument :

BNA\_E

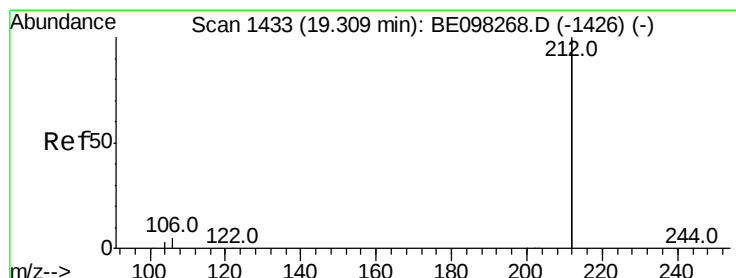
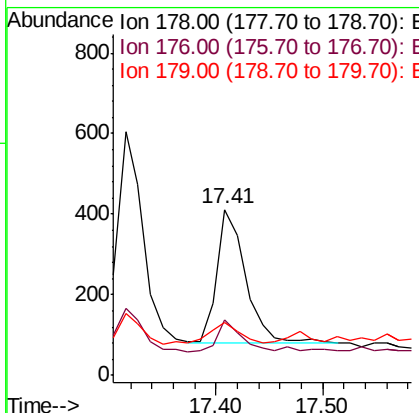
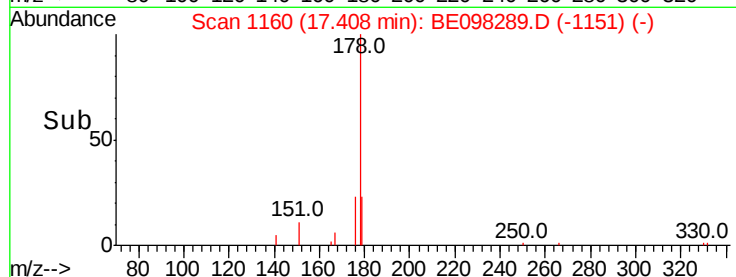
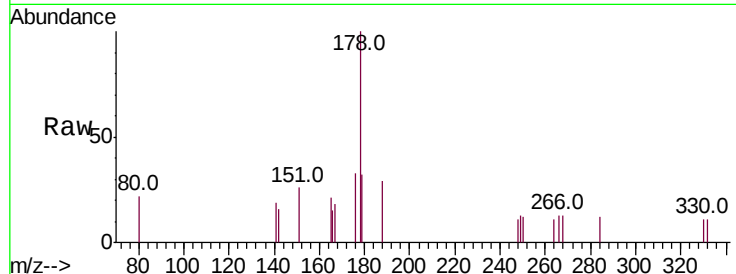
ClientSampleId :

W-1

|           |       |       |      |
|-----------|-------|-------|------|
| Tot Ion:  | 178   | Resp: | 622  |
| Ion Ratio | Lower | Upper |      |
| 178       | 100   |       |      |
| 176       | 19.9  | 15.0  | 22.4 |
| 179       | 15.4  | 12.3  | 18.5 |

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#25

Fluoranthene-d10

Concen: 0.390 ng

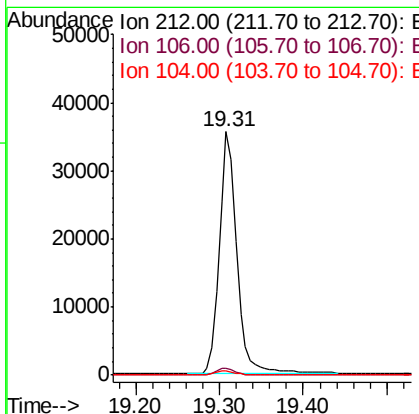
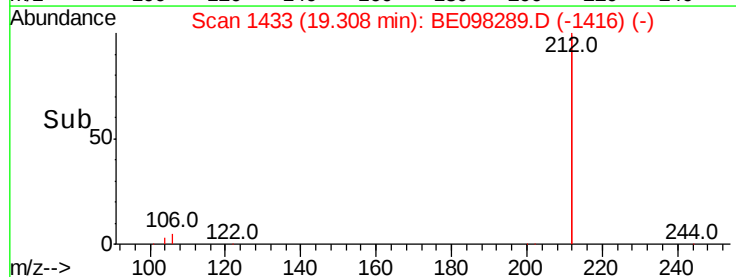
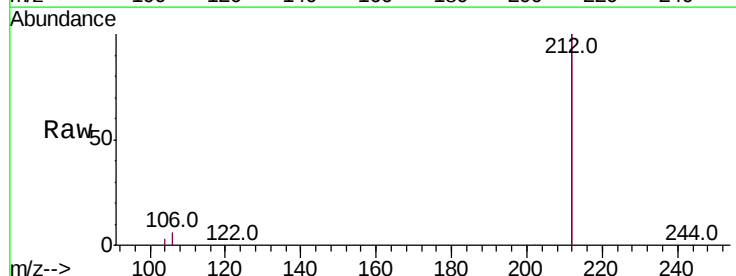
RT: 19.31 min Scan# 1433

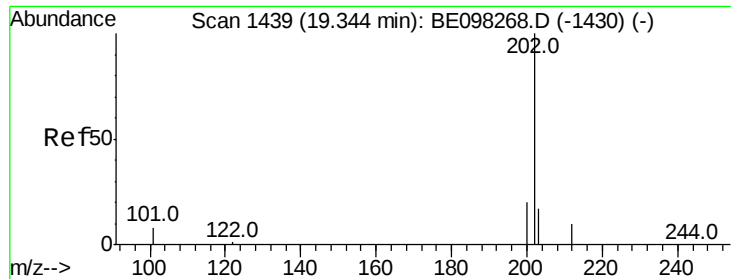
Delta R.T. -0.00 min

Lab File: BE098289.D

Acq: 30 Nov 2018 16:37

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 212   | Resp: | 51873 |
| Ion Ratio | Lower | Upper |       |
| 212       | 100   |       |       |
| 106       | 2.8   | 2.2   | 3.2   |
| 104       | 1.6   | 1.3   | 1.9   |





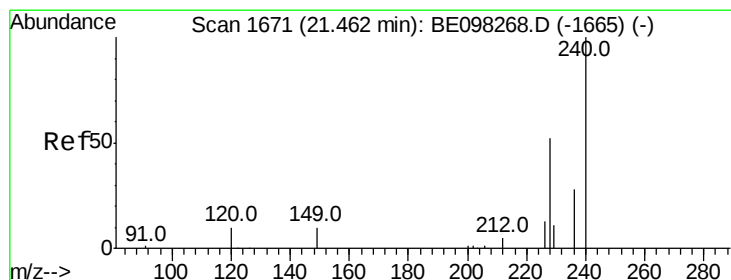
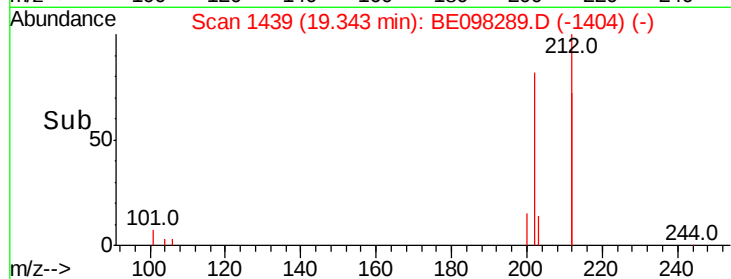
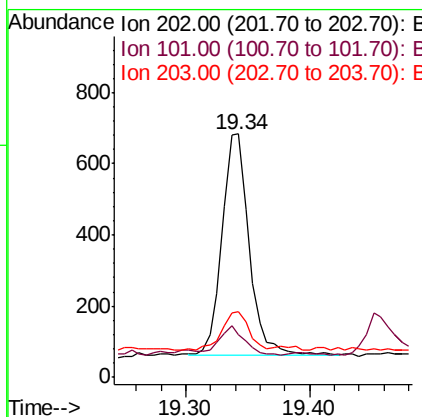
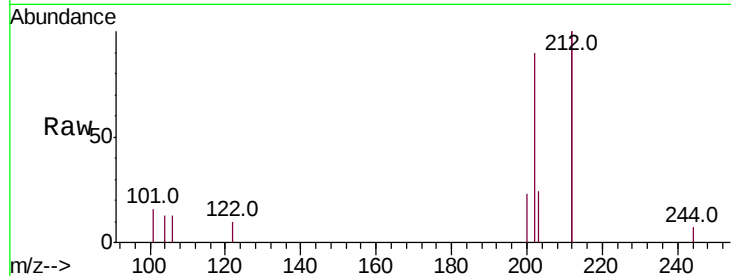
#26  
 Fluoranthene  
 Concen: 0.028 ng  
 RT: 19.34 min Scan# 1439  
 Delta R.T. -0.00 min  
 Lab File: BE098289.D  
 Acq: 30 Nov 2018 16:37

Instrument :  
 BNA\_E  
 ClientSampleId :  
 W-1

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 202   | Resp: | 950   |
| Ion      | Ratio | Lower | Upper |
| 202      | 100   |       |       |
| 101      | 12.0  | 8.0   | 12.0  |
| 203      | 18.5  | 13.8  | 20.6  |

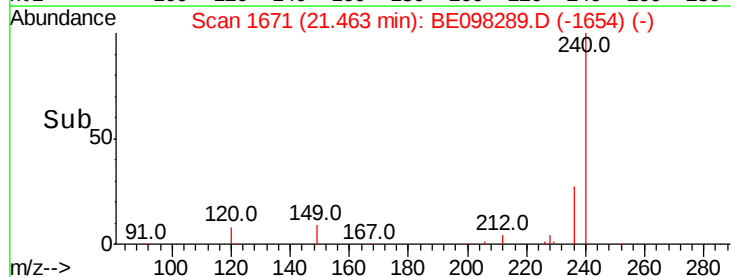
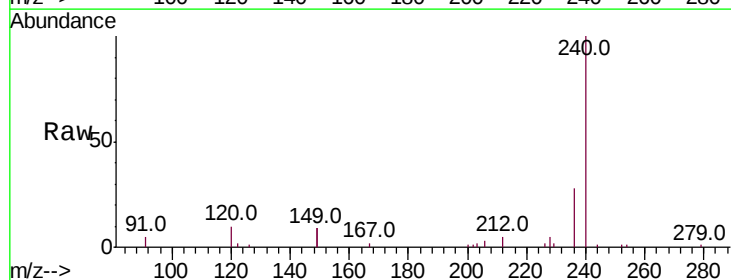
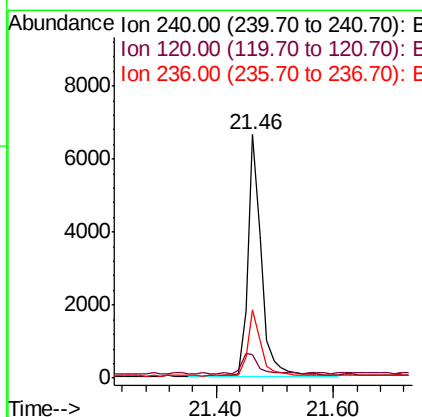
Manual Integrations  
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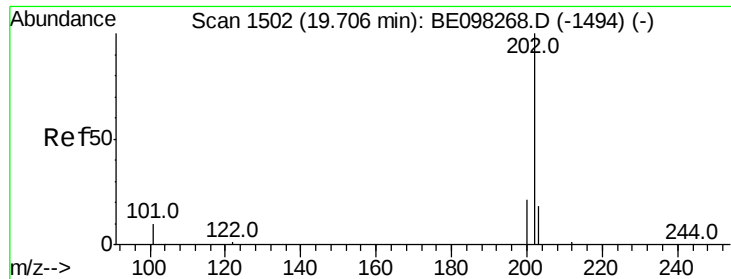
mohammad  
 12/3/2018 3:34:01 PM



#27  
 Chrysene-d12  
 Concen: 0.400 ng  
 RT: 21.46 min Scan# 1671  
 Delta R.T. 0.00 min  
 Lab File: BE098289.D  
 Acq: 30 Nov 2018 16:37

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 240   | Resp: | 10482 |
| Ion      | Ratio | Lower | Upper |
| 240      | 100   |       |       |
| 120      | 9.8   | 9.5   | 14.3  |
| 236      | 27.9  | 22.7  | 34.1  |





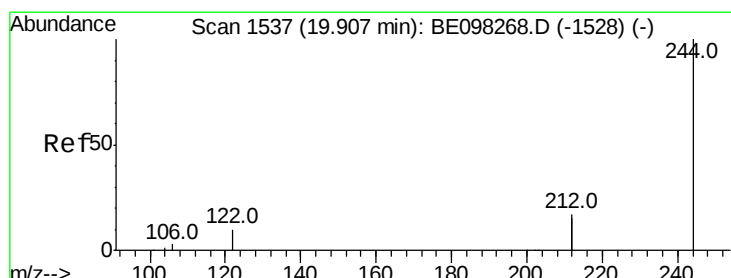
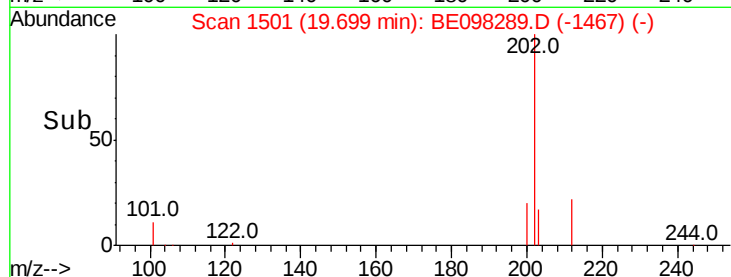
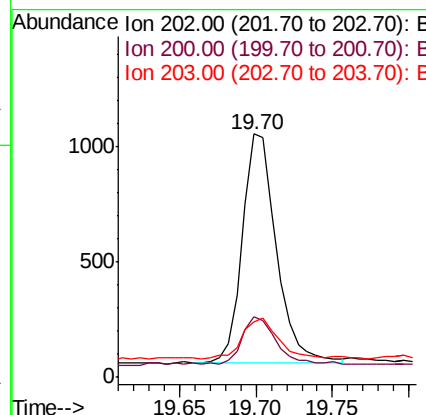
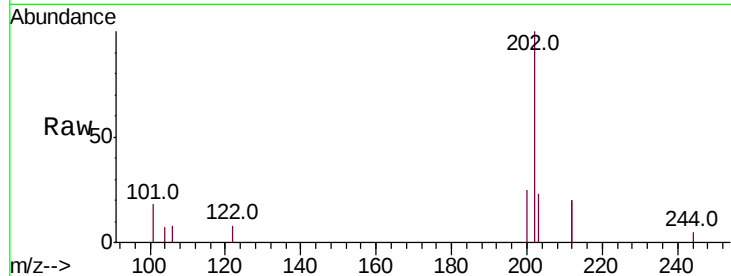
#28  
Pvrene  
Concen: 0.053 ng  
RT: 19.70 min Scan# 1501  
Delta R.T. -0.01 min  
Lab File: BE098289.D  
Acq: 30 Nov 2018 16:37

Instrument :  
BNA\_E  
ClientSampleId :  
W-1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 20.7  | 16.7  | 25.1  |
| 203     | 18.4  | 14.1  | 21.1  |

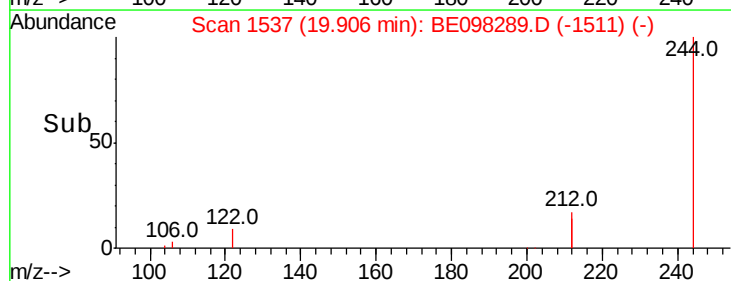
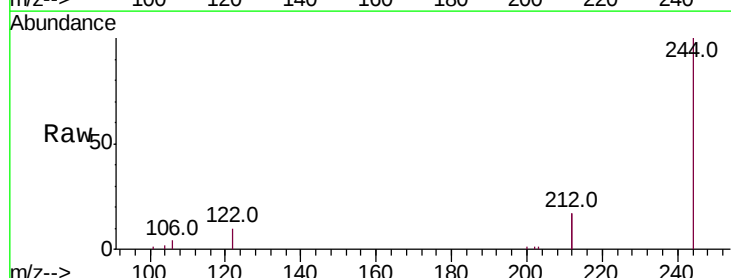
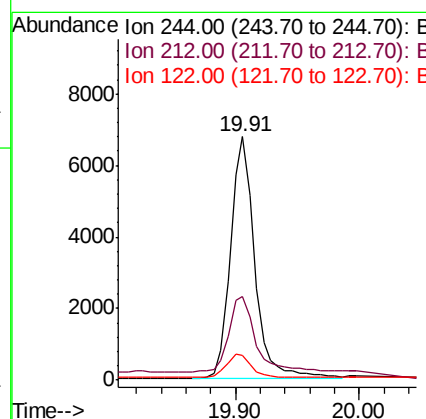
Manual Integrations  
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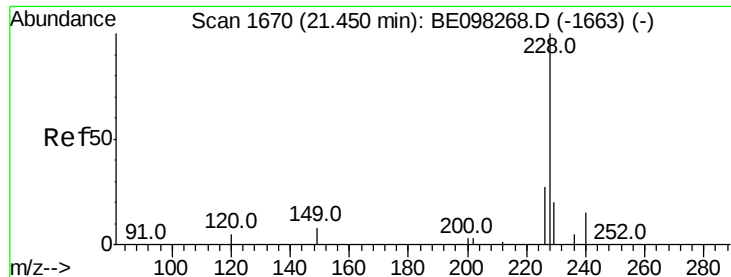
mohammad  
12/3/2018 3:34:01 PM



#29  
Terphenyl-d14  
Concen: 0.389 ng  
RT: 19.91 min Scan# 1537  
Delta R.T. -0.00 min  
Lab File: BE098289.D  
Acq: 30 Nov 2018 16:37

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 34.2  | 27.4  | 41.0  |
| 122     | 10.2  | 8.3   | 12.5  |





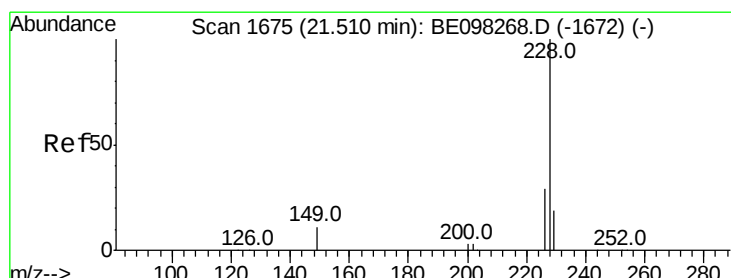
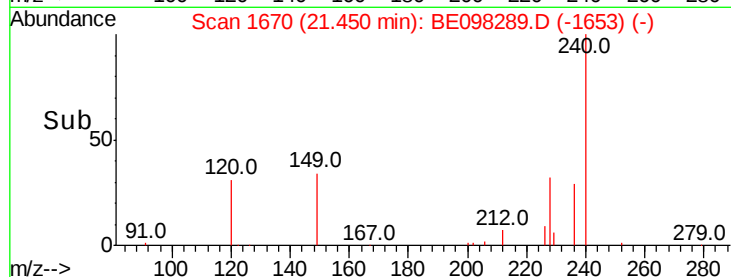
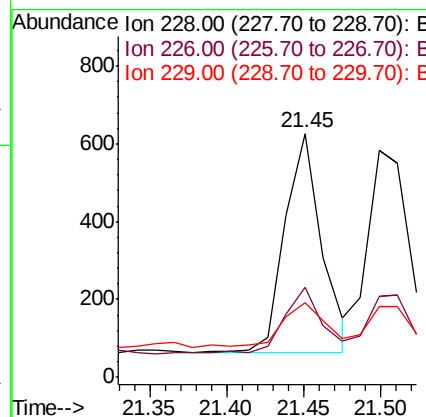
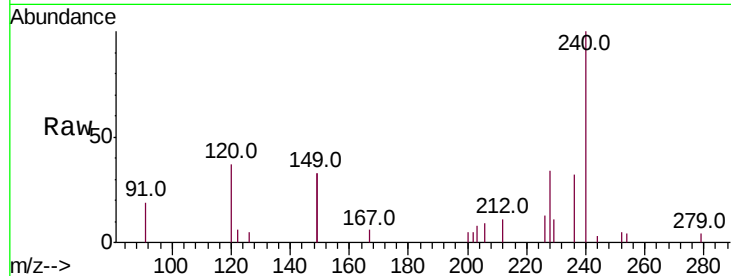
#30  
Benzo(a)anthracene  
Concen: 0.030 ng  
RT: 21.45 min Scan# 1670  
Delta R.T. 0.00 min  
Lab File: BE098289.D  
Acq: 30 Nov 2018 16:37

Instrument :  
BNA\_E  
ClientSampleId :  
W-1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 37.1  | 21.8  | 32.8# |
| 229     | 30.8  | 16.3  | 24.5# |

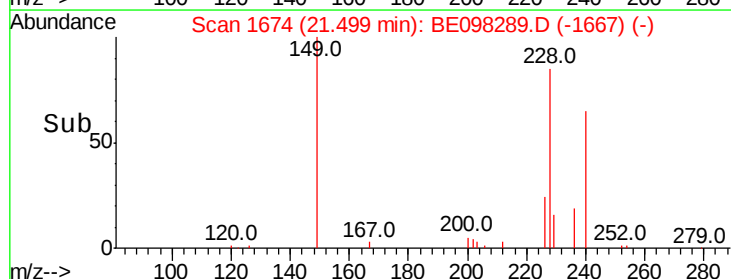
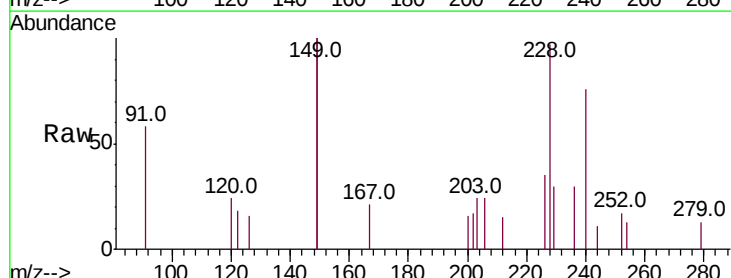
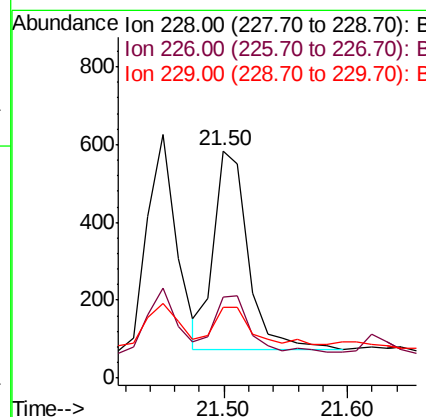
Manual Integrations  
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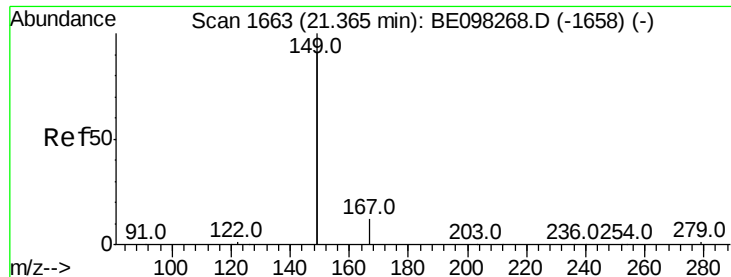
mohammad  
12/3/2018 3:34:01 PM



#31  
Chrysene  
Concen: 0.032 ng  
RT: 21.50 min Scan# 1674  
Delta R.T. -0.01 min  
Lab File: BE098289.D  
Acq: 30 Nov 2018 16:37

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 35.8  | 23.4  | 35.0# |
| 229     | 31.2  | 16.2  | 24.4# |





#32

Bis(2-ethylhexyl)phthalate

Concen: 0.085 ng

RT: 21.37 min Scan# 1663

Delta R.T. 0.00 min

Lab File: BE098289.D

Acq: 30 Nov 2018 16:37

Instrument :

BNA\_E

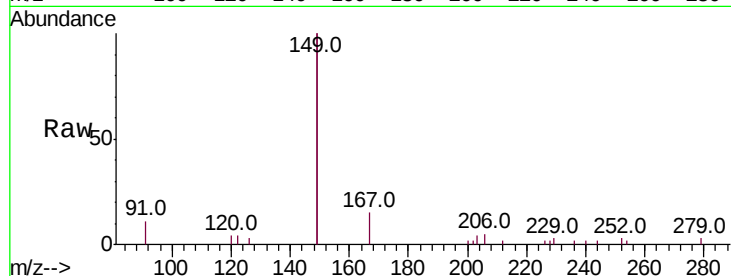
ClientSampleId :

W-1

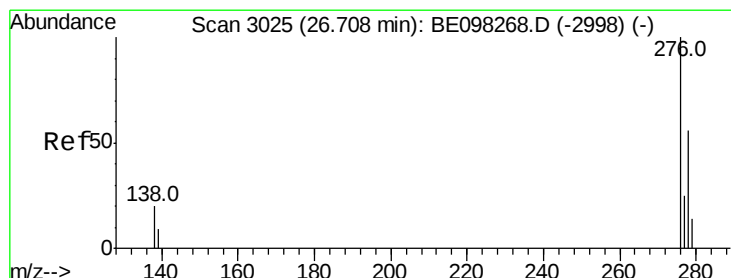
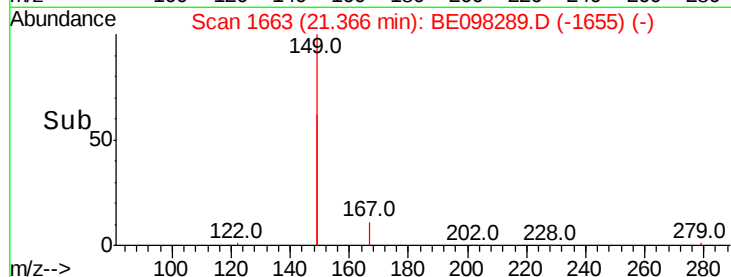
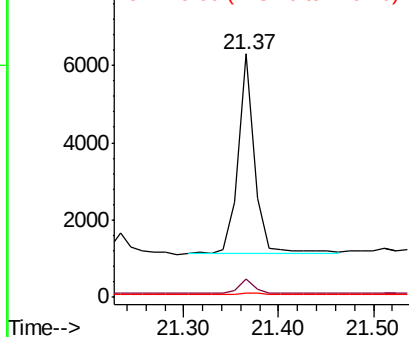
|           |       |       |      |
|-----------|-------|-------|------|
| Tot Ion:  | 149   | Resp: | 6299 |
| Ion Ratio | Lower | Upper |      |
| 149       | 100   |       |      |
| 167       | 7.3   | 5.7   | 8.5  |
| 279       | 1.2   | 1.0   | 1.4  |

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12/3/2018 3:34:01 PM



Abundance Ion 149.00 (148.70 to 149.70): E  
Ion 167.00 (166.70 to 167.70): E  
Ion 279.00 (278.70 to 279.70): E



#33

Indeno(1,2,3-cd)pyrene

Concen: 0.033 ng m

RT: 26.70 min Scan# 3023

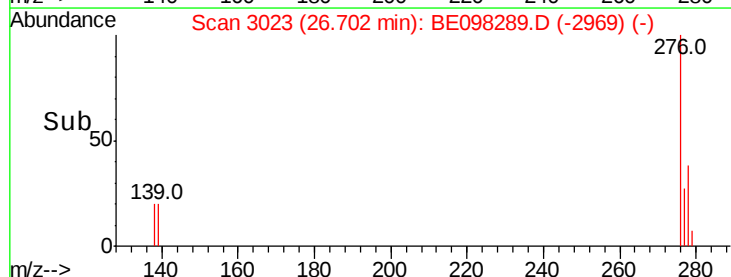
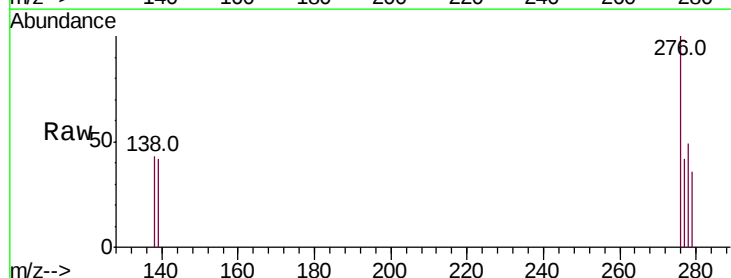
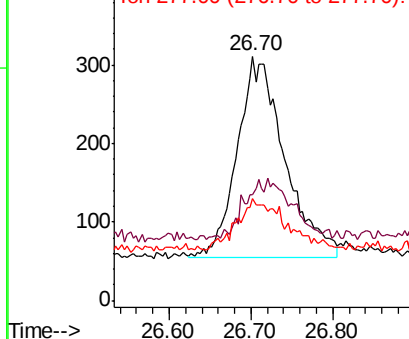
Delta R.T. -0.01 min

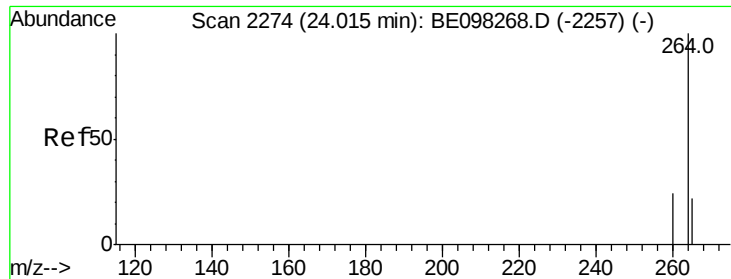
Lab File: BE098289.D

Acq: 30 Nov 2018 16:37

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 1040  |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 13.5  | 16.3  | 24.5# |
| 277       | 24.7  | 20.2  | 30.4  |

Abundance Ion 276.00 (275.70 to 276.70): E  
Ion 138.00 (137.70 to 138.70): E  
Ion 277.00 (276.70 to 277.70): E





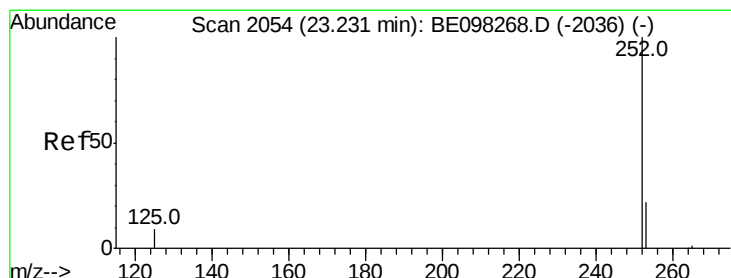
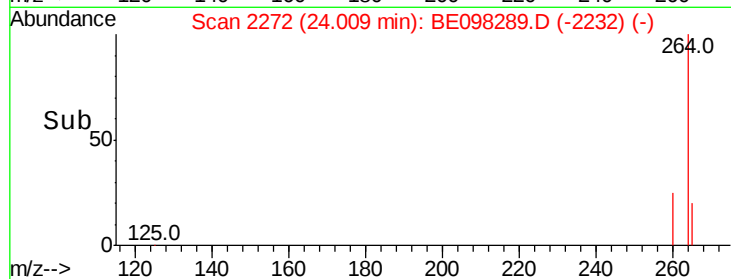
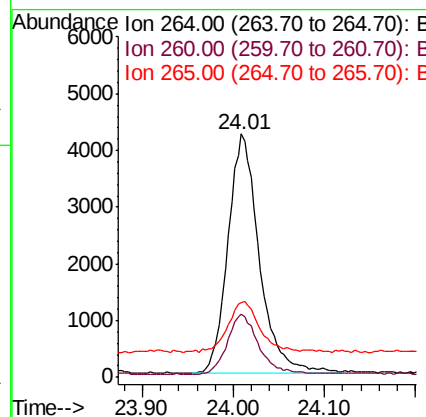
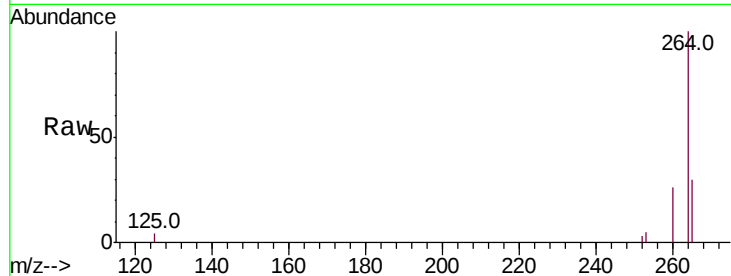
#34  
 Pervlene-d12  
 Concen: 0.400 ng  
 RT: 24.01 min Scan# 2272  
 Delta R.T. -0.01 min  
 Lab File: BE098289.D  
 Acq: 30 Nov 2018 16:37

Instrument :  
 BNA\_E  
 ClientSampleId :  
 W-1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 25.9  | 20.2  | 30.2  |
| 265     | 30.5  | 25.2  | 37.8  |

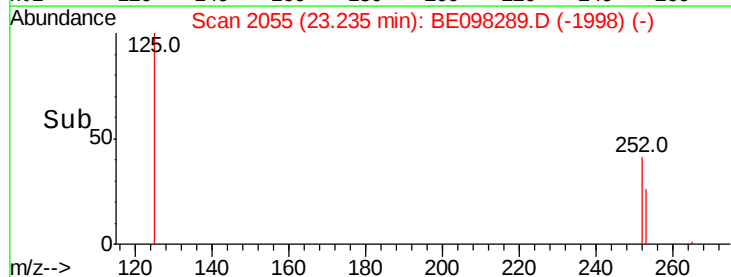
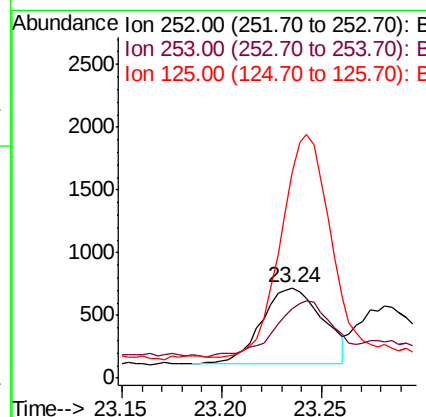
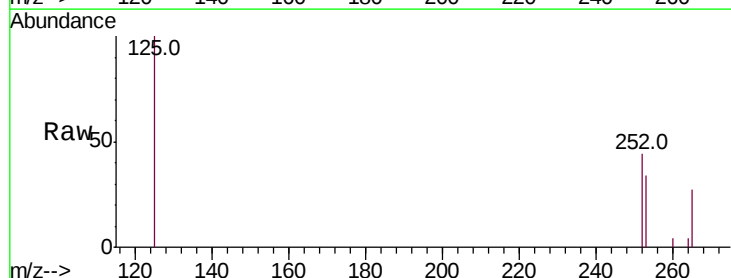
Manual Integrations  
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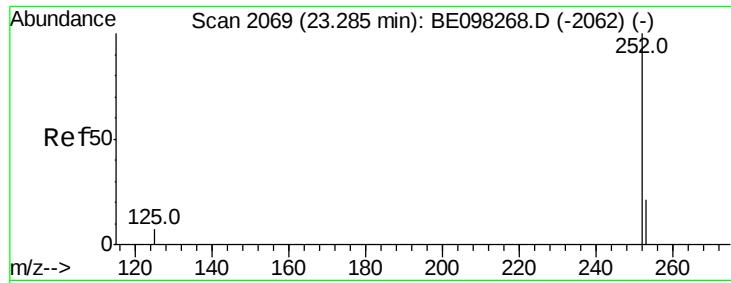
mohammad  
 12/3/2018 3:34:01 PM



#35  
 Benzo(b)fluoranthene  
 Concen: 0.043 ng  
 RT: 23.24 min Scan# 2055  
 Delta R.T. 0.00 min  
 Lab File: BE098289.D  
 Acq: 30 Nov 2018 16:37

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 77.2  | 20.0  | 30.0# |
| 125     | 229.5 | 9.6   | 14.4# |





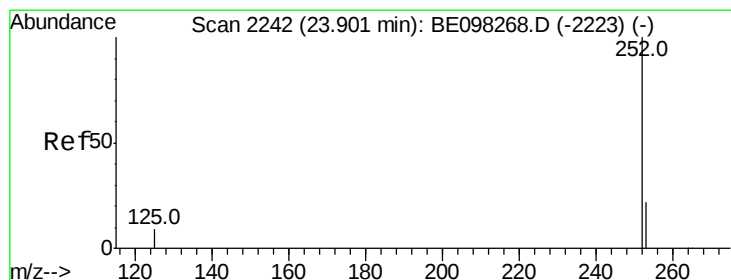
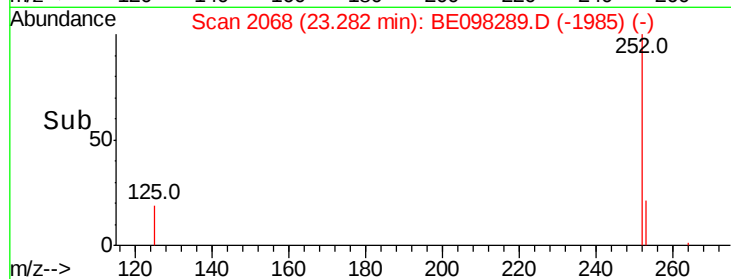
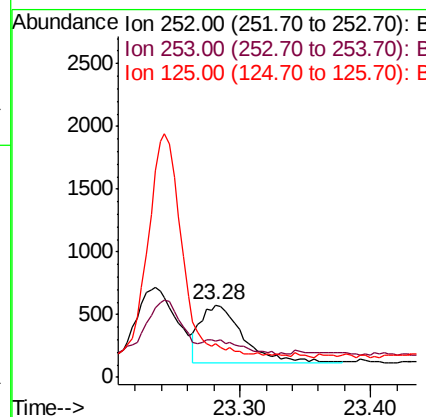
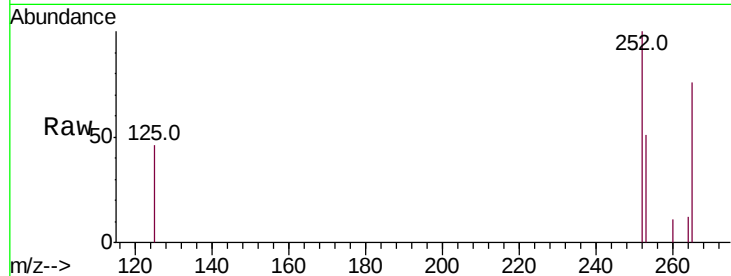
#36  
Benzo(k)fluoranthene  
Concen: 0.033 ng  
RT: 23.28 min Scan# 2068  
Delta R.T. -0.00 min  
Lab File: BE098289.D  
Acq: 30 Nov 2018 16:37

Instrument :  
BNA\_E  
ClientSampleId :  
W-1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 50.8  | 19.0  | 28.6# |
| 125     | 46.1  | 9.1   | 13.7# |

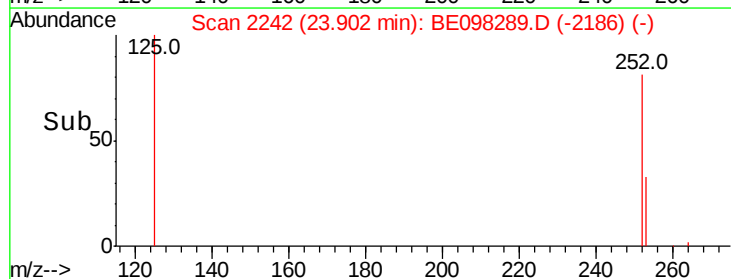
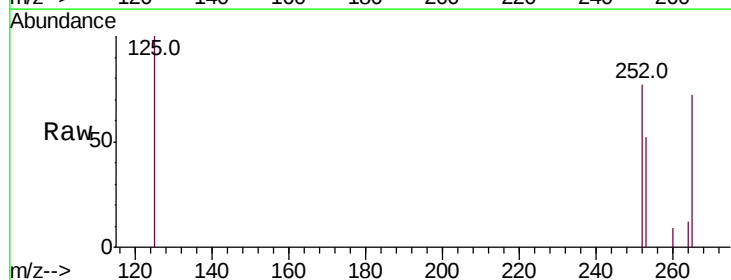
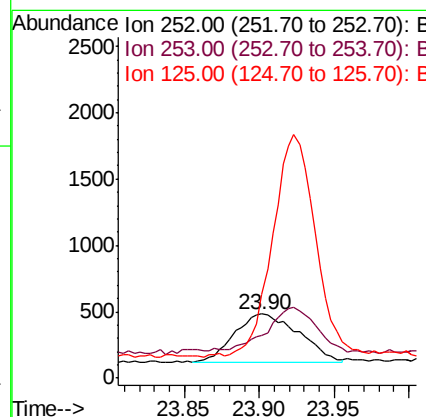
Manual Integrations  
APPROVED

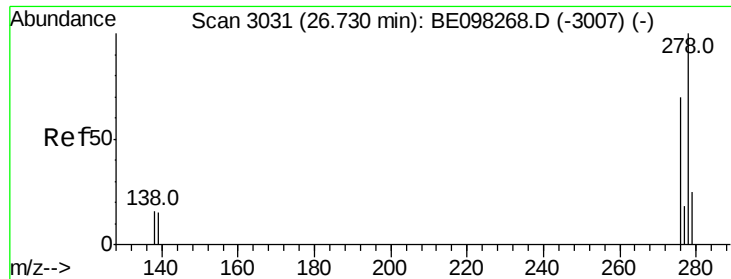
mohammad  
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#37  
Benzo(a)pyrene  
Concen: 0.037 ng  
RT: 23.90 min Scan# 2242  
Delta R.T. 0.00 min  
Lab File: BE098289.D  
Acq: 30 Nov 2018 16:37

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 66.9  | 20.6  | 30.8# |
| 125     | 129.8 | 10.5  | 15.7# |





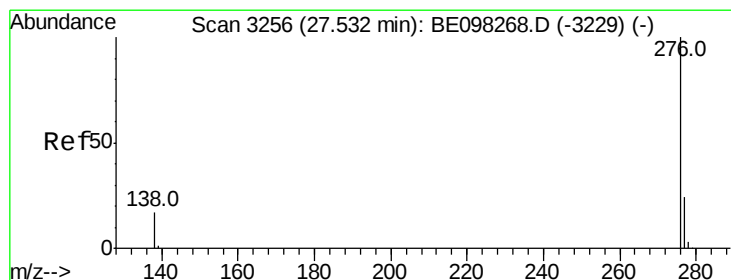
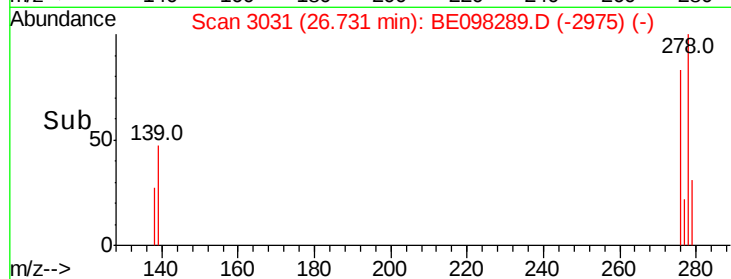
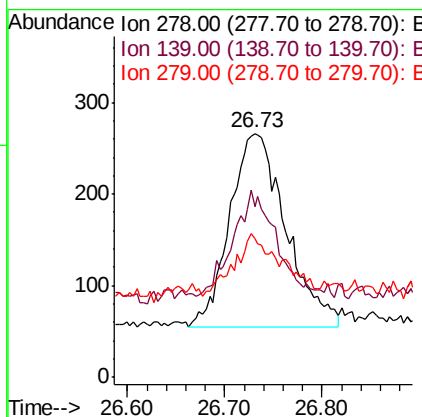
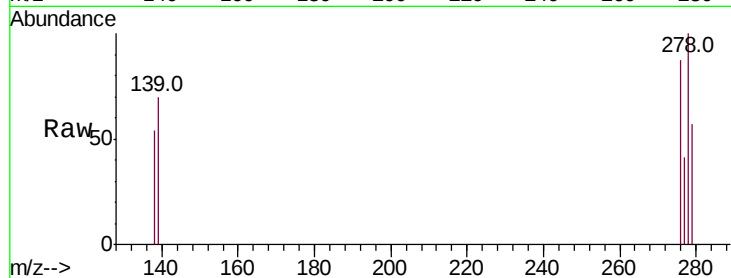
#38  
Dibenzo(a,h)anthracene  
Concen: 0.031 ng  
RT: 26.73 min Scan# 3031  
Delta R.T. 0.00 min  
Lab File: BE098289.D  
Acq: 30 Nov 2018 16:37

Instrument :  
BNA\_E  
ClientSampleId :  
W-1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 69.9  | 14.5  | 21.7# |
| 279     | 57.1  | 21.8  | 32.8# |

Manual Integrations  
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#39  
Benzo(g,h,i)perylene  
Concen: 0.031 ng  
RT: 27.53 min Scan# 3256  
Delta R.T. 0.00 min  
Lab File: BE098289.D  
Acq: 30 Nov 2018 16:37

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 41.1  | 20.8  | 31.2# |
| 138     | 45.0  | 15.8  | 23.6# |

