

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM112320\  
 Data File : BM027952.D  
 Acq On : 24 Nov 2020 20:45  
 Operator : JU/CG  
 Sample : L4749-18DL 5X  
 Misc :  
 ALS Vial : 46 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 C0B17DL

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 11/25/2020 12:46:32 PM

Quant Time: Nov 25 01:37:04 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM112020.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Nov 24 15:00:24 2020  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 8.32  | 152  | 1076     | 0.40   | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 11.16 | 136  | 4279     | 0.40   | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.94 | 164  | 2352     | 0.40   | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 17.66 | 188  | 4117     | 0.40   | ng/ul  | 0.00     |
| 16) Chrysene-d12            | 21.76 | 240  | 2263     | 0.40   | ng/ul  | 0.00     |
| 20) Perylene-d12            | 24.18 | 264  | 2413     | 0.40   | ng/ul  | 0.00     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 4) 2-Methylnaphthalene-d10  | 12.72 | 152  | 198      | 0.03   | ng/ul  | 0.00     |
| 14) Fluoranthene-d10        | 19.65 | 212  | 264      | 0.02   | ng/ul  | 0.00     |
| Target Compounds            |       |      |          | Ovalue |        |          |
| 3) Naphthalene              | 11.21 | 128  | 946      | 0.074  | ng/ul# | 88       |
| 5) 2-Methylnaphthalene      | 12.79 | 142  | 339      | 0.039  | ng/ul  | 99       |
| 7) Acenaphthylene           | 14.67 | 152  | 572      | 0.050  | ng/ul# | 73       |
| 8) Acenaphthene             | 15.00 | 153  | 2576     | 0.300  | ng/ul  | 98       |
| 9) Fluorene                 | 15.98 | 166  | 2786     | 0.279  | ng/ul  | 99       |
| 12) Phenanthrene            | 17.70 | 178  | 86777    | 6.672  | ng/ul  | 97       |
| 13) Anthracene              | 17.79 | 178  | 14442    | 1.151  | ng/ul  | 99       |
| 15) Fluoranthene            | 19.68 | 202  | 225564   | 15.642 | ng/ul  | 99       |
| 17) Pyrene                  | 20.03 | 202  | 177653   | 15.457 | ng/ul  | 98       |
| 18) Benzo(a)anthracene      | 21.74 | 228  | 88808    | 9.726  | ng/ul  | 100      |
| 19) Chrysene                | 21.80 | 228  | 106216   | 11.943 | ng/ul  | 99       |
| 21) Benzo(b)fluoranthene    | 23.45 | 252  | 134129m  | 13.226 | ng/ul  |          |
| 22) Benzo(k)fluoranthene    | 23.49 | 252  | 47667m   | 4.800  | ng/ul  |          |
| 23) Benzo(a)pyrene          | 24.08 | 252  | 80448    | 9.073  | ng/ul# | 84       |
| 24) Indeno(1,2,3-cd)pyrene  | 26.67 | 276  | 60570    | 6.309  | ng/ul# | 97       |
| 25) Dibenzo(a,h)anthracene  | 26.67 | 278  | 15672    | 1.961  | ng/ul  | 93       |
| 26) Benzo(a,h,i)perylene    | 27.45 | 276  | 52580    | 6.528  | ng/ul  | 94       |

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

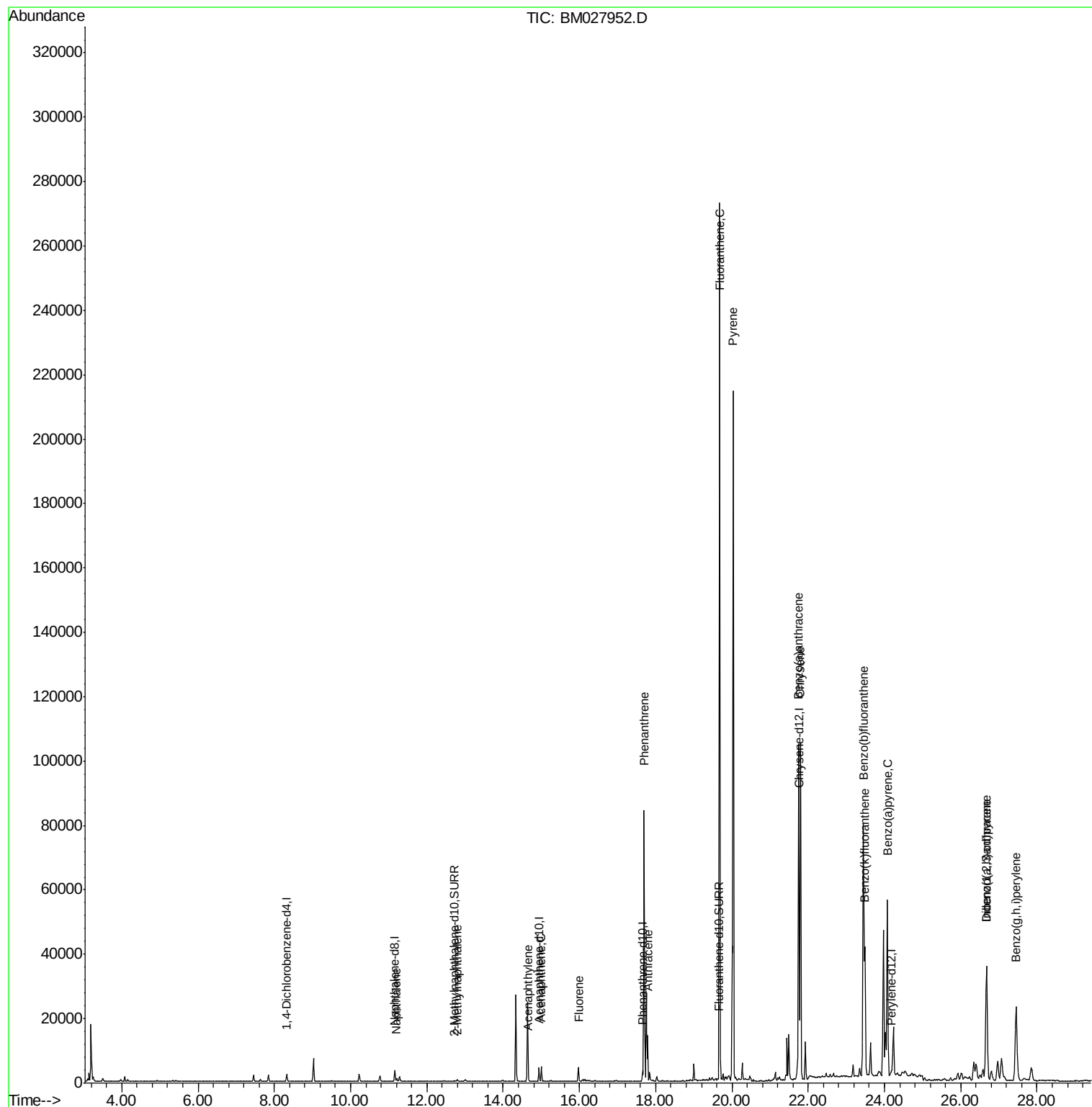
Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM112320\  
Data File : BM027952.D  
Acq On : 24 Nov 2020 20:45  
Operator : JU/CG  
Sample : L4749-18DL 5X  
Misc :  
ALS Vial : 46 Sample Multiplier: 1

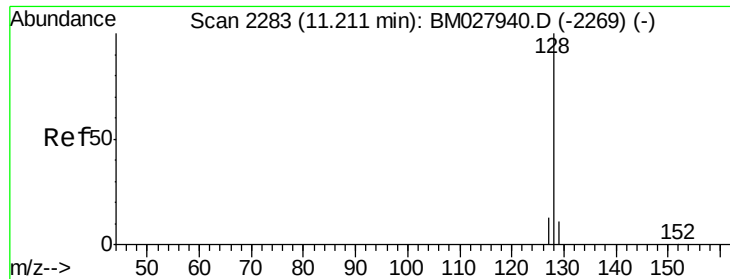
Instrument :  
BNA\_M  
ClientSampleId :  
C0B17DL

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Quant Time: Nov 25 01:37:04 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM112020.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Nov 24 15:00:24 2020  
Response via : Initial Calibration





#3

Naphthalene

Concen: 0.074 ng/ul

RT: 11.21 min Scan# 2282

Delta R.T. -0.00 min

Lab File: BM027952.D

Acq: 24 Nov 2020 20:45

Instrument :

BNA\_M

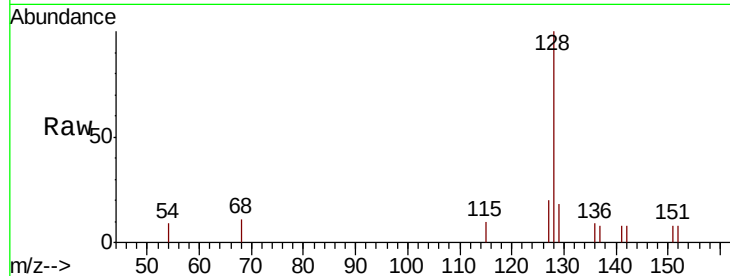
ClientSampleId :

C0B17DL

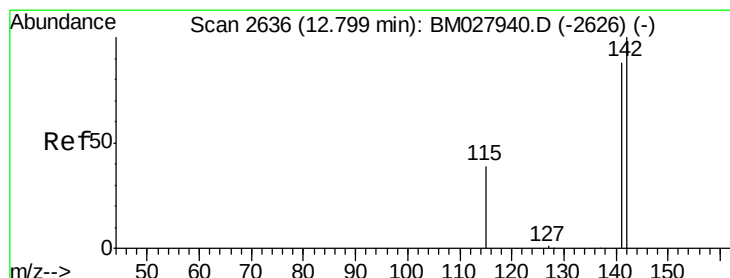
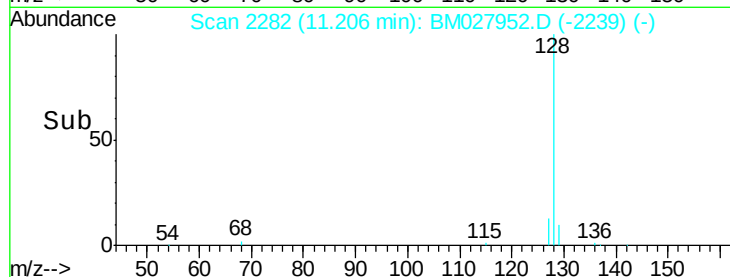
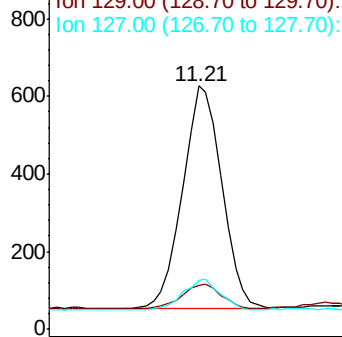
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 128   | Resp: | 946   |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 129      | 17.9  | 10.4  | 15.6# |
| 127      | 20.1  | 12.0  | 18.0# |

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Abundance Ion 128.00 (127.70 to 128.70): E



#5

2-Methylnaphthalene

Concen: 0.039 ng/ul

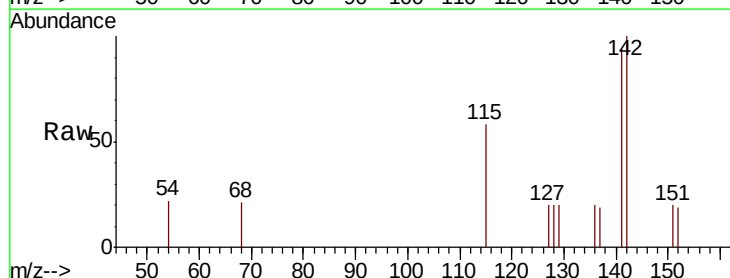
RT: 12.79 min Scan# 2635

Delta R.T. -0.00 min

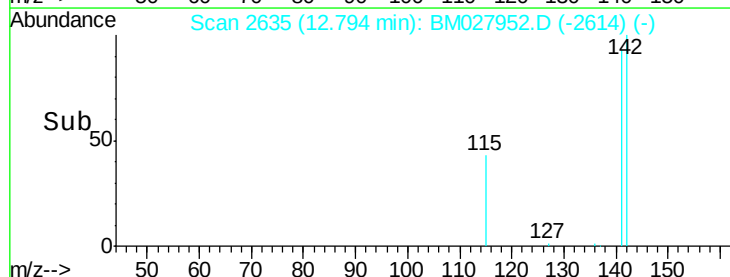
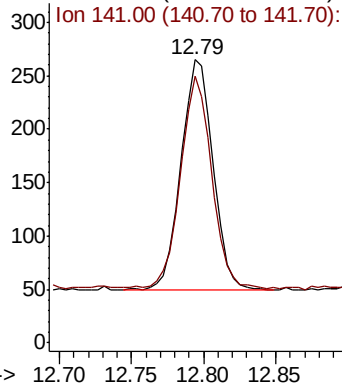
Lab File: BM027952.D

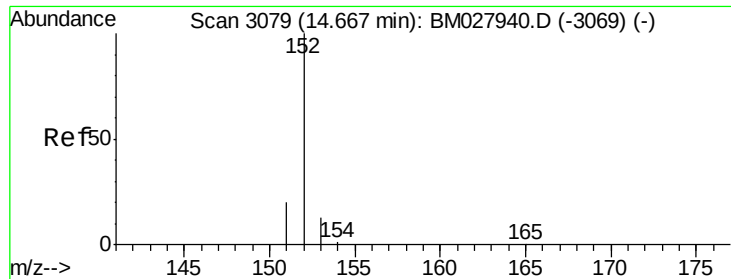
Acq: 24 Nov 2020 20:45

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 142   | Resp: | 339   |
| Ion      | Ratio | Lower | Upper |
| 142      | 100   |       |       |
| 141      | 88.8  | 71.6  | 107.4 |



Abundance Ion 142.00 (141.70 to 142.70): E





#7

Acenaphthylene

Concen: 0.050 ng/ul

RT: 14.67 min Scan# 3079

Delta R.T. -0.00 min

Lab File: BM027952.D

Acq: 24 Nov 2020 20:45

Instrument :

BNA\_M

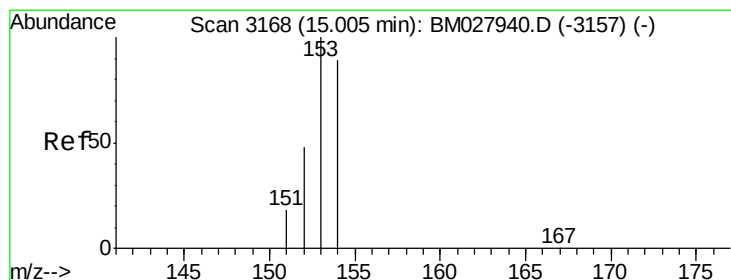
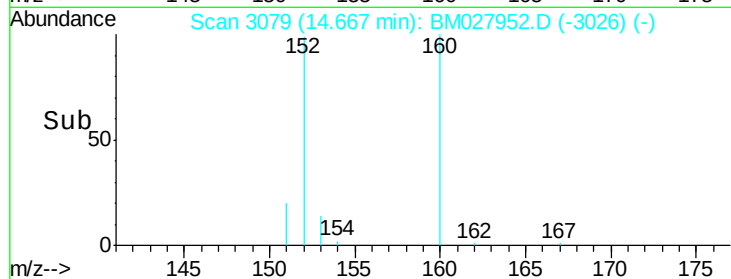
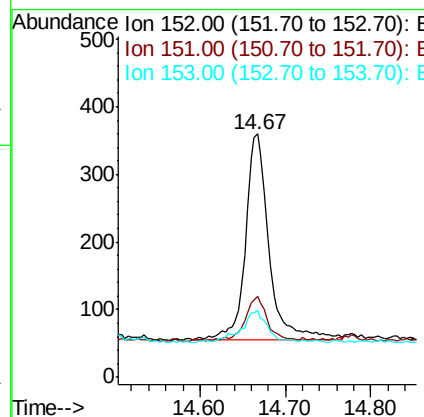
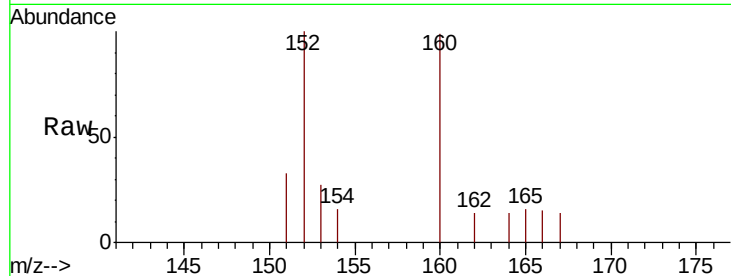
ClientSampleId :

C0B17DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 33.1  | 17.1  | 25.7# |
| 153     | 27.2  | 12.0  | 18.0# |

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#8

Acenaphthene

Concen: 0.300 ng/ul

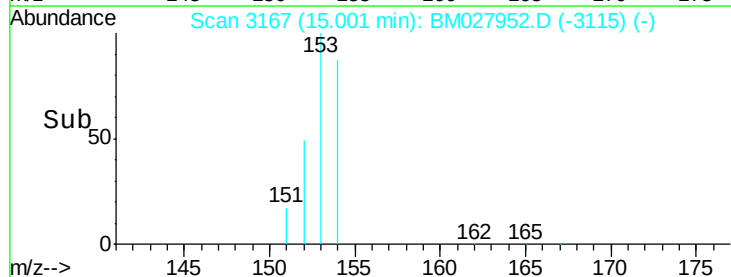
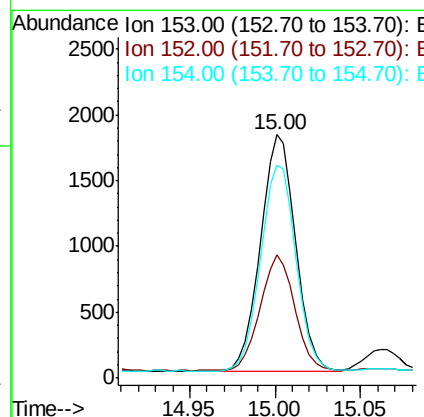
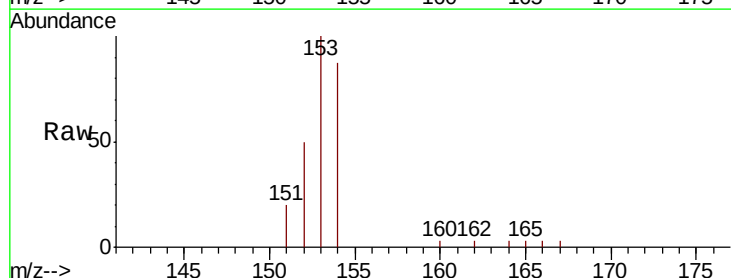
RT: 15.00 min Scan# 3167

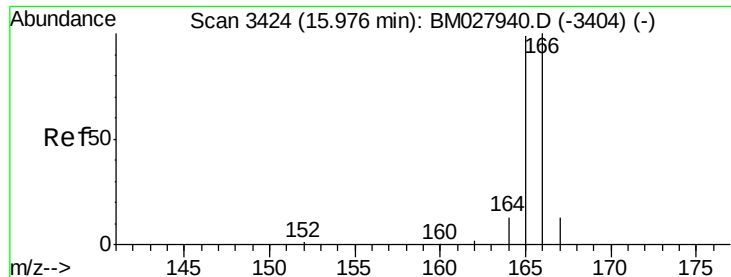
Delta R.T. -0.00 min

Lab File: BM027952.D

Acq: 24 Nov 2020 20:45

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 153     | 100   |       |       |
| 152     | 50.4  | 39.0  | 58.6  |
| 154     | 87.3  | 71.6  | 107.4 |





#9

Fluorene

Concen: 0.279 ng/ul

RT: 15.98 min Scan# 3424

Delta R.T. -0.00 min

Lab File: BM027952.D

Acq: 24 Nov 2020 20:45

Instrument :

BNA\_M

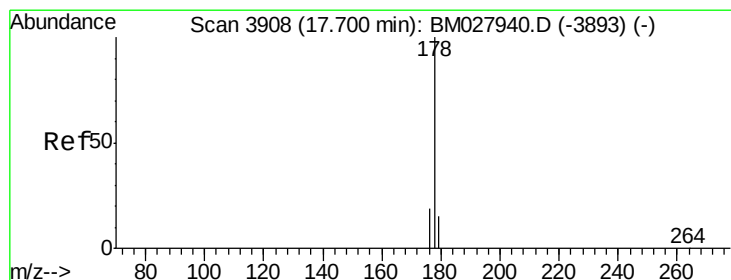
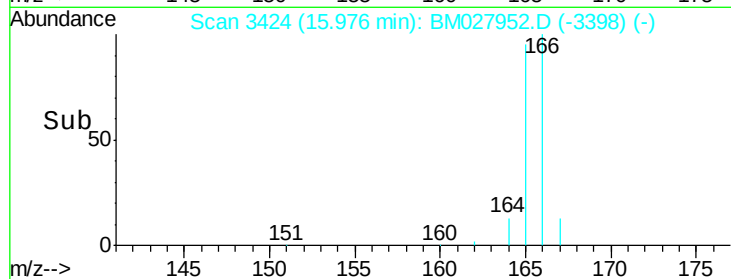
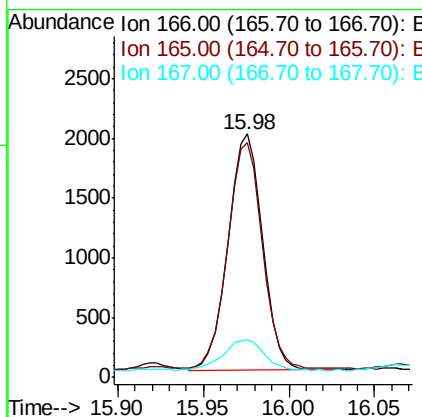
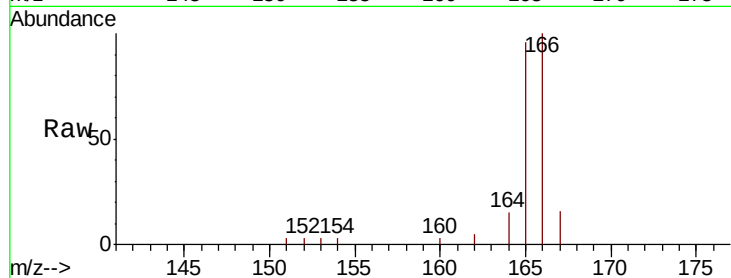
ClientSampleID :

C0B17DL

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 166   | Resp: | 2786  |
| Ion      | Ratio | Lower | Upper |
| 166      | 100   |       |       |
| 165      | 96.4  | 78.1  | 117.1 |
| 167      | 15.6  | 11.8  | 17.8  |

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#12

Phenanthrene

Concen: 6.672 ng/ul

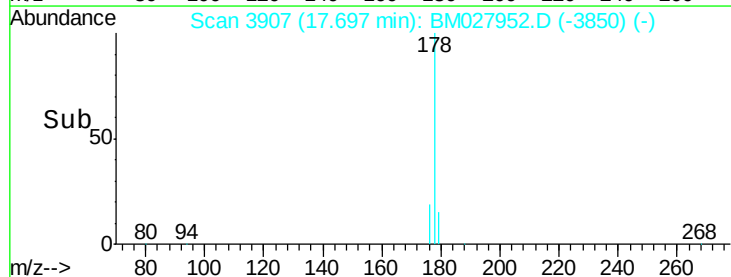
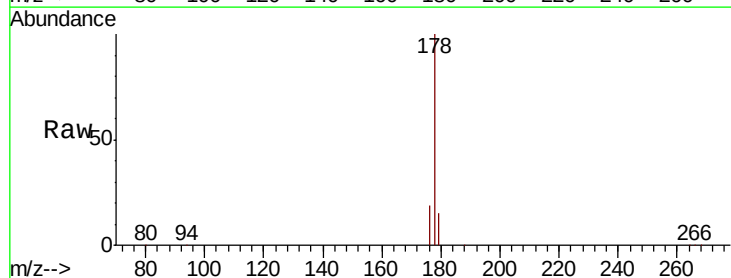
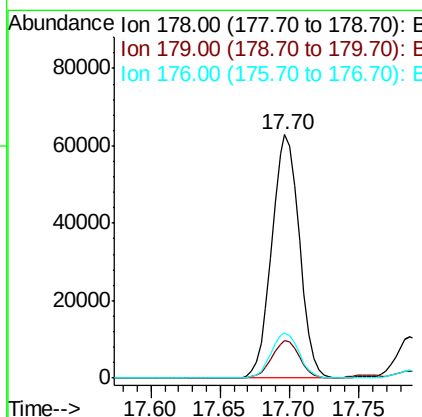
RT: 17.70 min Scan# 3907

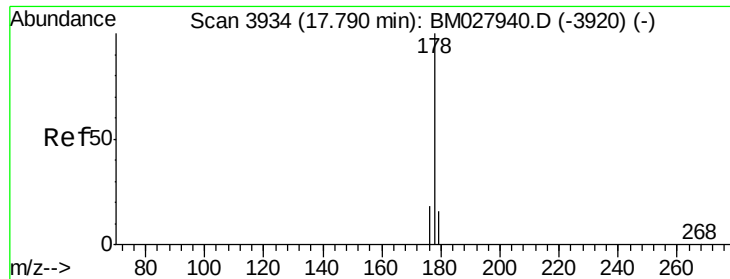
Delta R.T. -0.00 min

Lab File: BM027952.D

Acq: 24 Nov 2020 20:45

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 178   | Resp: | 86777 |
| Ion      | Ratio | Lower | Upper |
| 178      | 100   |       |       |
| 179      | 15.4  | 13.6  | 20.4  |
| 176      | 18.8  | 16.1  | 24.1  |





#13

Anthracene

Concen: 1.151 ng/ul

RT: 17.79 min Scan# 3933

Delta R.T. -0.00 min

Lab File: BM027952.D

Acq: 24 Nov 2020 20:45

Instrument :

BNA\_M

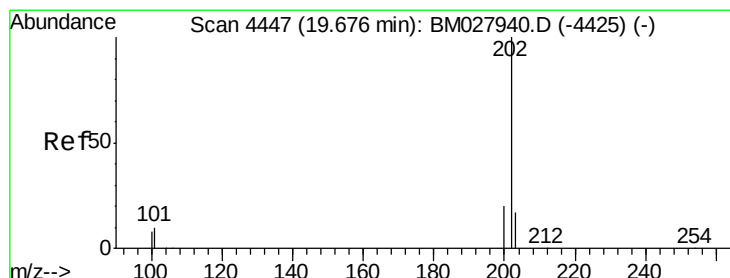
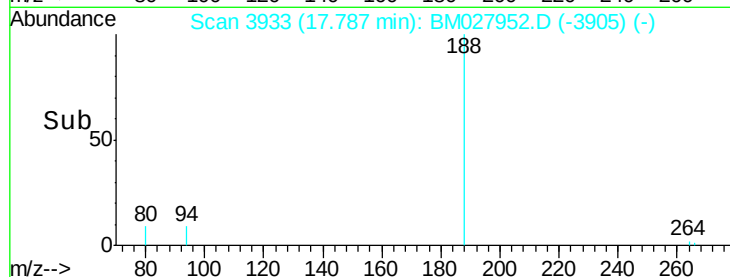
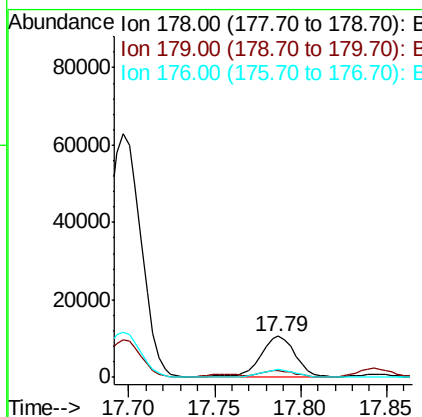
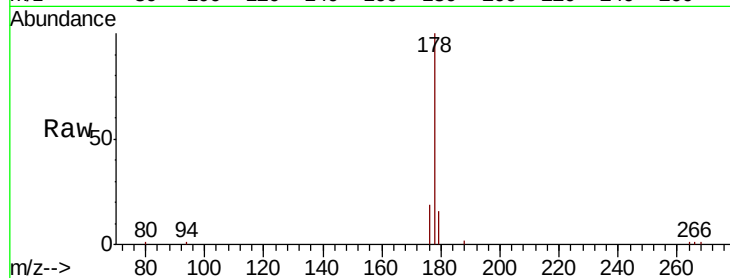
ClientSampleId :

C0B17DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 178   | Resp: | 14442 |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 179       | 16.1  | 13.4  | 20.2  |
| 176       | 18.7  | 15.0  | 22.6  |

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#15

Fluoranthene

Concen: 15.642 ng/ul

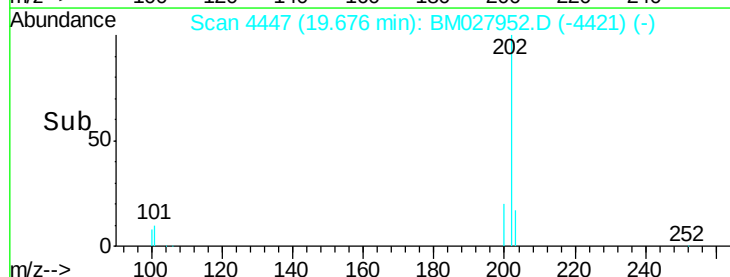
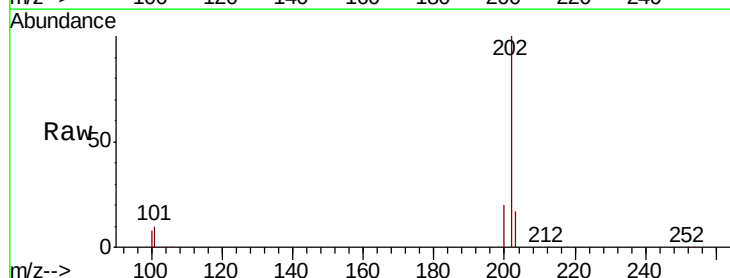
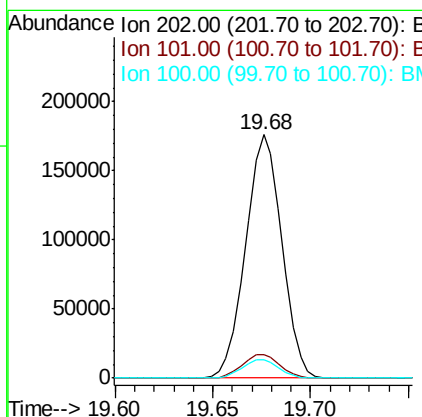
RT: 19.68 min Scan# 4447

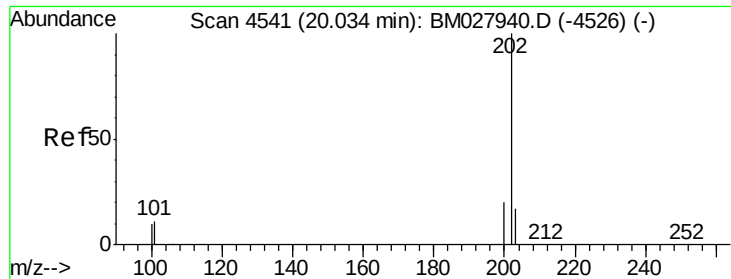
Delta R.T. -0.00 min

Lab File: BM027952.D

Acq: 24 Nov 2020 20:45

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 225564 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 9.9   | 0.0   | 29.3   |
| 100       | 7.7   | 0.0   | 27.4   |





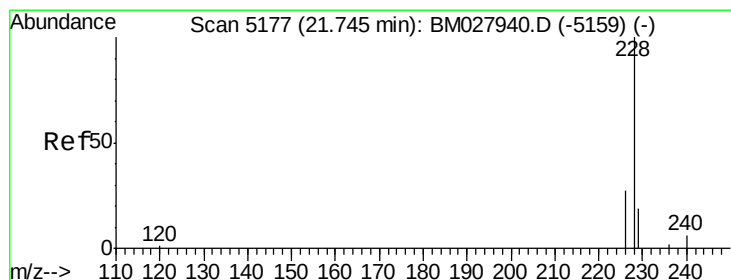
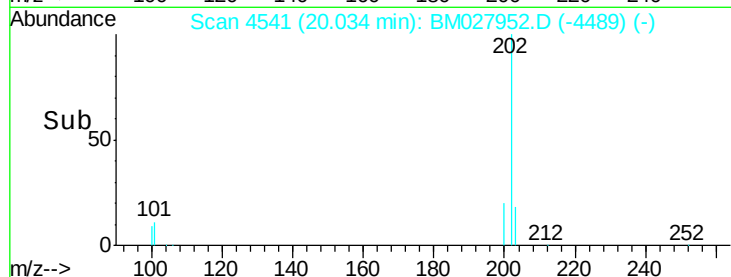
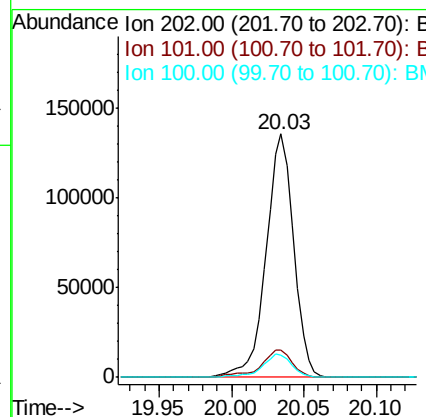
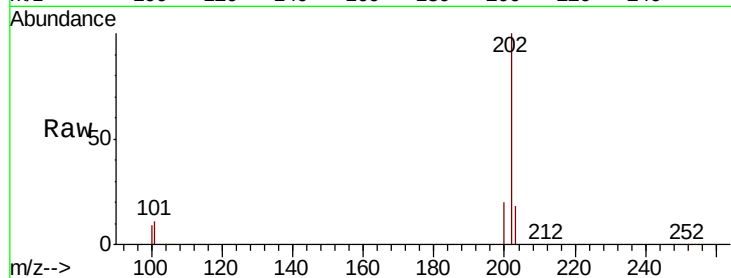
#17  
Pvrene  
Concen: 15.457 ng/ul  
RT: 20.03 min Scan# 4541  
Delta R.T. -0.00 min  
Lab File: BM027952.D  
Acq: 24 Nov 2020 20:45

Instrument :  
BNA\_M  
ClientSampleId :  
C0B17DL

| Tot Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 202     | 100   |            |            |
| 101     | 11.2  | 8.2        | 12.2       |
| 100     | 9.2   | 6.9        | 10.3       |

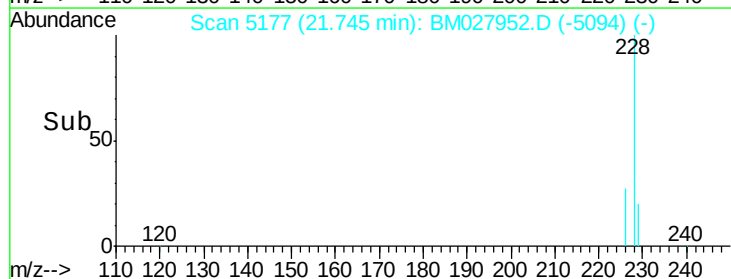
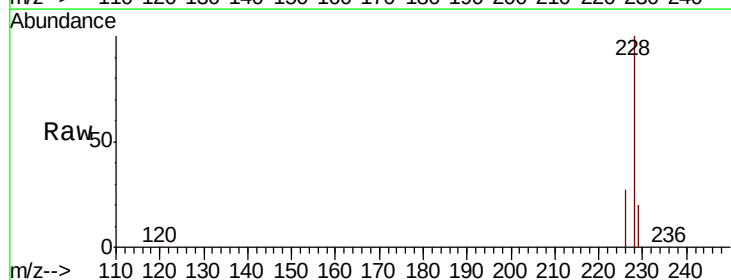
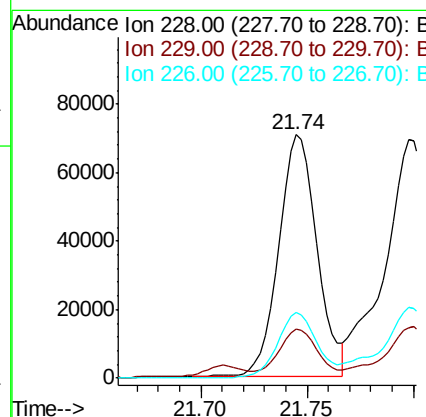
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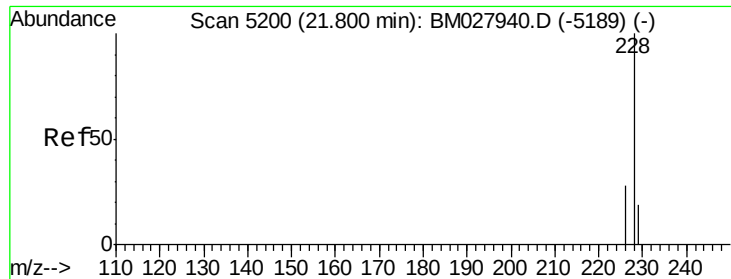
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#18  
Benzo(a)anthracene  
Concen: 9.726 ng/ul  
RT: 21.74 min Scan# 5177  
Delta R.T. -0.00 min  
Lab File: BM027952.D  
Acq: 24 Nov 2020 20:45

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 228     | 100   |            |            |
| 229     | 20.2  | 16.2       | 24.4       |
| 226     | 26.8  | 21.5       | 32.3       |





#19

Chrysene

Concen: 11.943 ng/ul

RT: 21.80 min Scan# 5199

Delta R.T. -0.00 min

Lab File: BM027952.D

Acq: 24 Nov 2020 20:45

Instrument :

BNA\_M

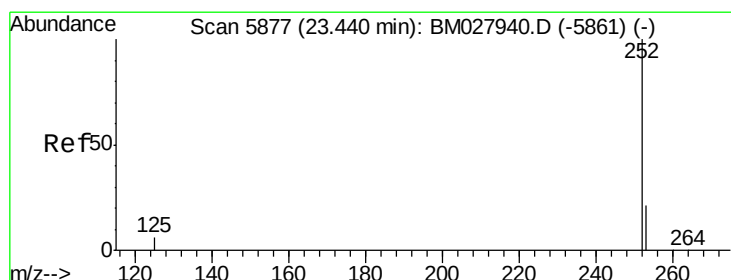
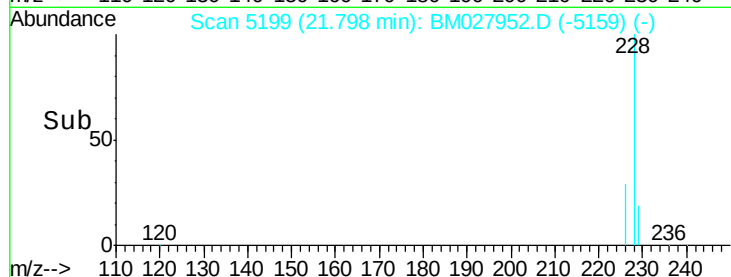
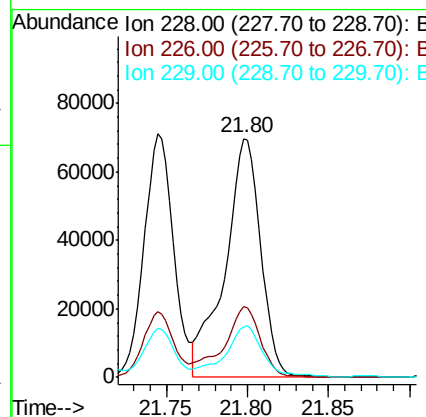
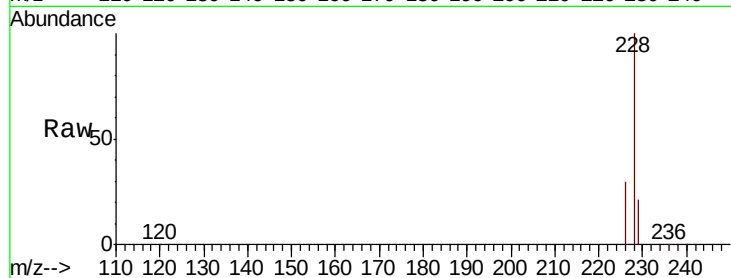
ClientSampleId :

C0B17DL

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 228   | Resp: | 106216 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 29.5  | 24.1  | 36.1   |
| 229       | 21.3  | 16.6  | 24.8   |

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#21

Benzo(b)fluoranthene

Concen: 13.226 ng/ul m

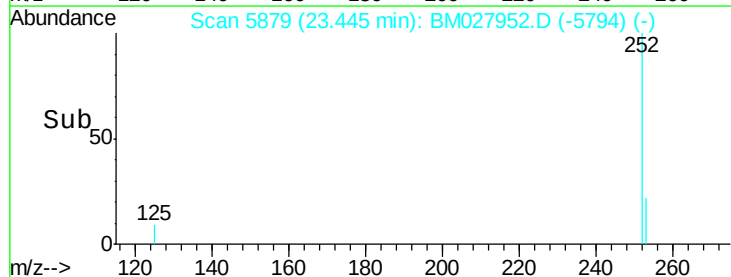
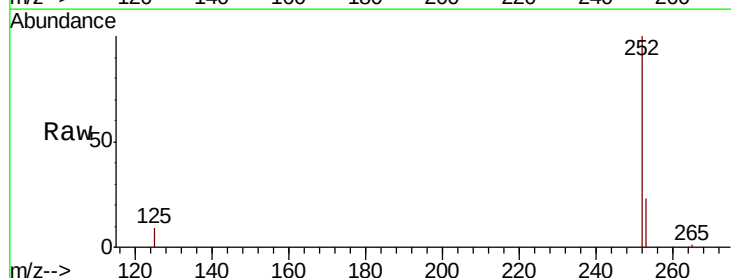
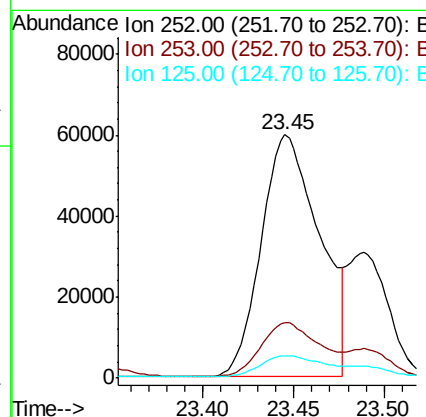
RT: 23.45 min Scan# 5879

Delta R.T. 0.00 min

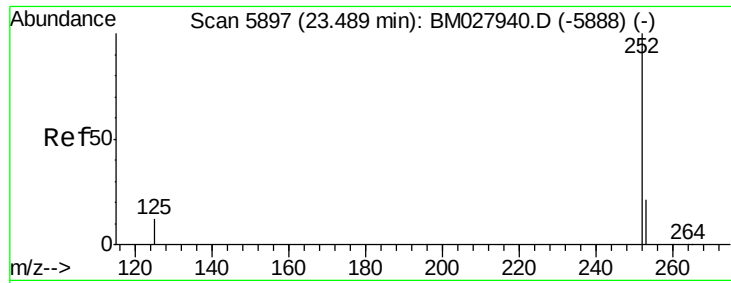
Lab File: BM027952.D

Acq: 24 Nov 2020 20:45

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 134129 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 22.8  | 0.0   | 59.6   |
| 125       | 9.2   | 0.0   | 28.4   |







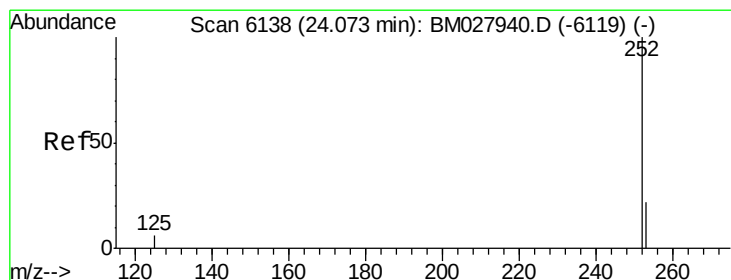
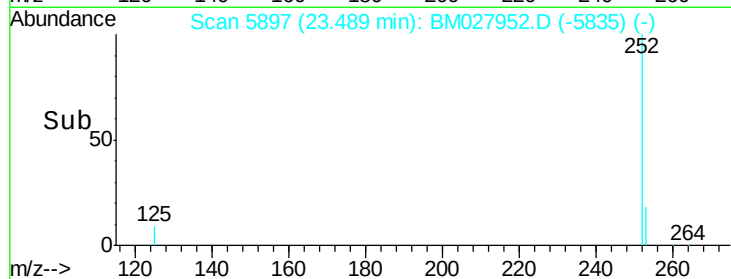
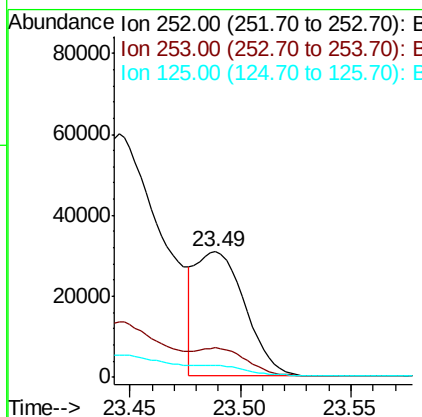
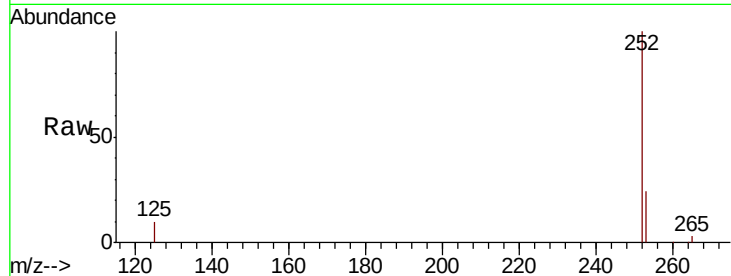
#22  
Benzo(k)fluoranthene  
Concen: 4.800 ng/ul m  
RT: 23.49 min Scan# 5897  
Delta R.T. -0.00 min  
Lab File: BM027952.D  
Acq: 24 Nov 2020 20:45

Instrument :  
BNA\_M  
ClientSampleId :  
C0B17DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.9  | 23.2  | 34.8  |
| 125     | 9.6   | 11.8  | 17.6# |

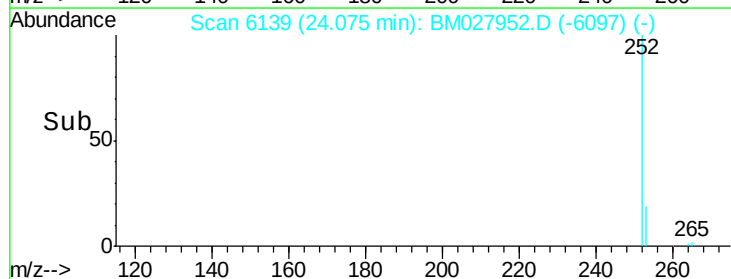
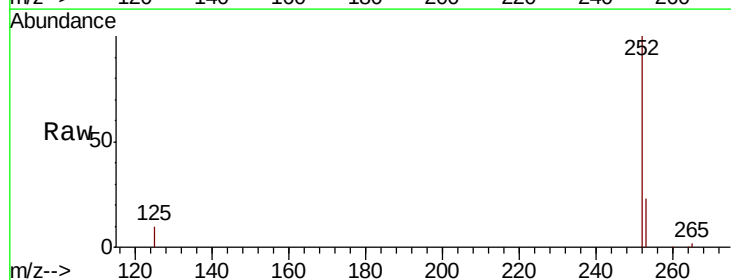
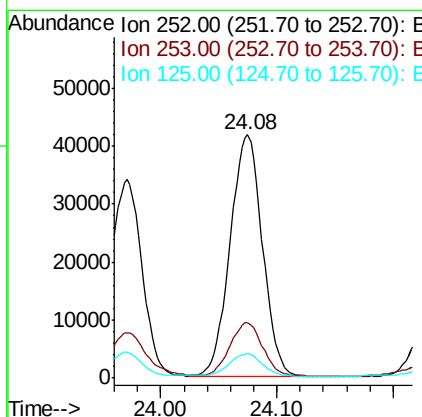
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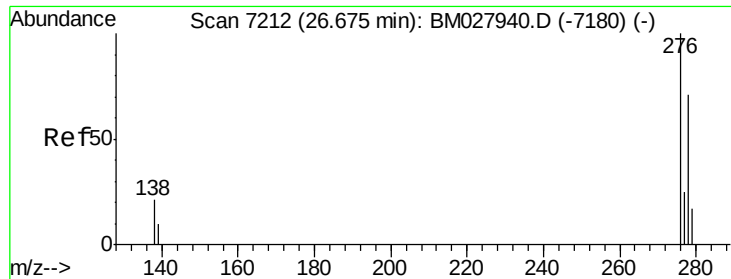
mohammad  
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#23  
Benzo(a)pyrene  
Concen: 9.073 ng/ul  
RT: 24.08 min Scan# 6139  
Delta R.T. 0.00 min  
Lab File: BM027952.D  
Acq: 24 Nov 2020 20:45

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.6  | 25.2  | 37.8# |
| 125     | 10.0  | 13.8  | 20.6# |





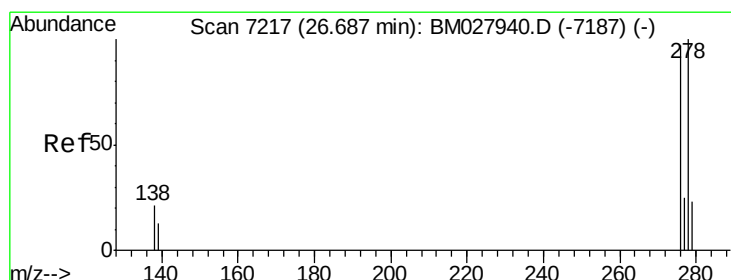
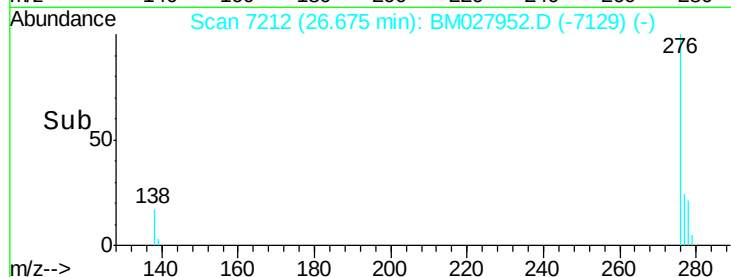
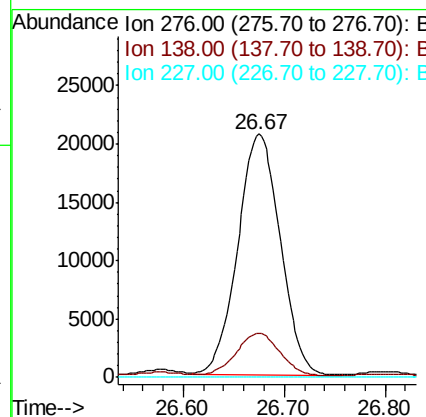
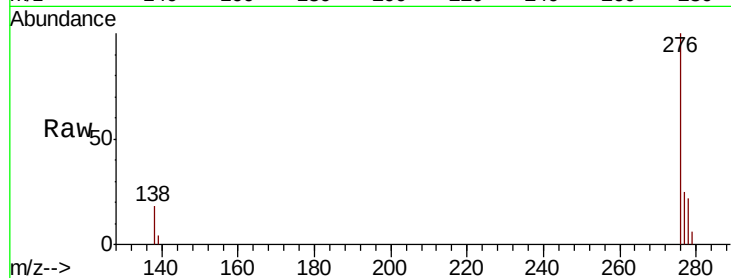
#24  
 Indeno(1,2,3-cd)pyrene  
 Concen: 6.309 ng/ul  
 RT: 26.67 min Scan# 7212  
 Delta R.T. -0.00 min  
 Lab File: BM027952.D  
 Acq: 24 Nov 2020 20:45

Instrument :  
 BNA\_M  
 ClientSampleId :  
 C0B17DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 18.1  | 15.7  | 23.5  |
| 227     | 0.0   | 0.0   | 0.0   |

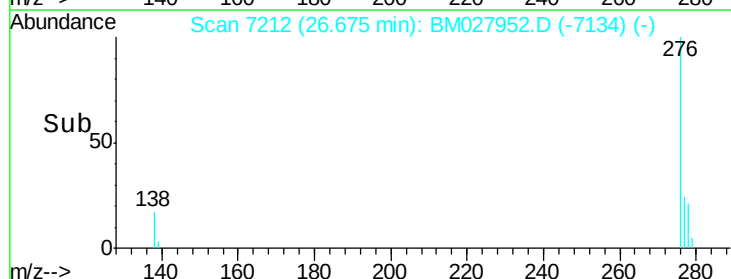
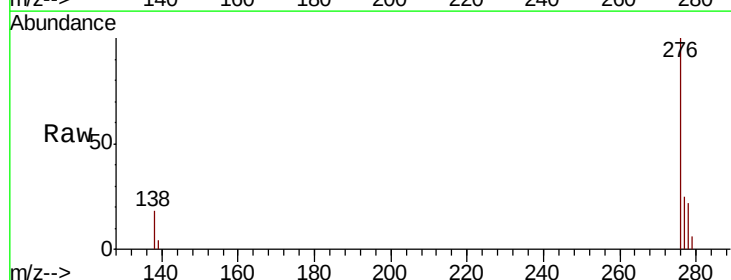
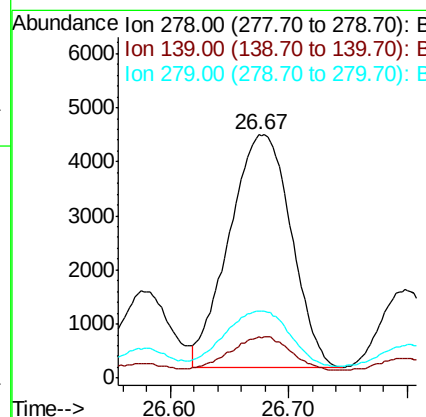
Manual Integrations  
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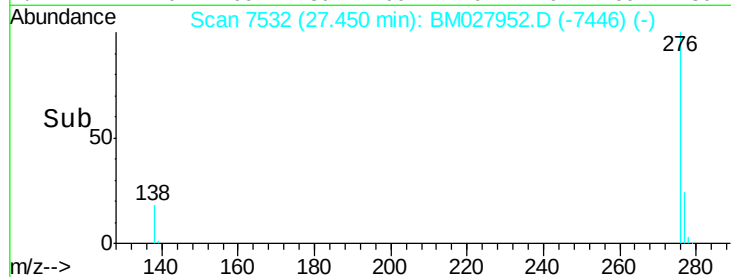
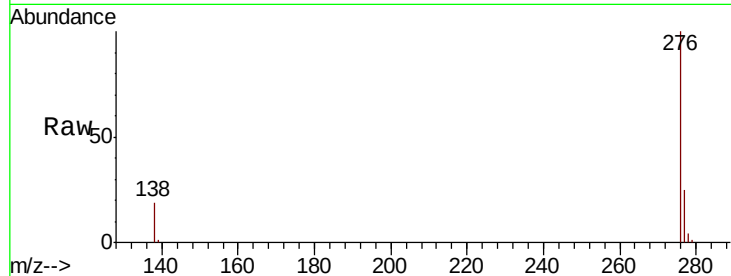
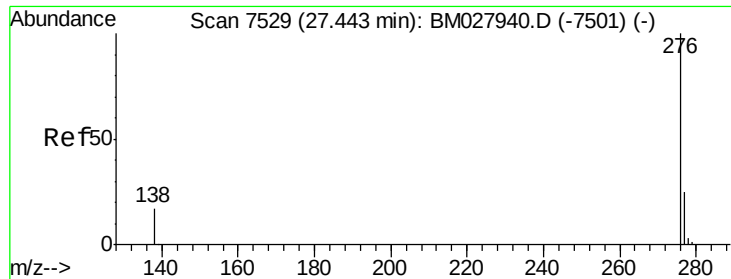
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#25  
 Dibenzo(a,h)anthracene  
 Concen: 1.961 ng/ul  
 RT: 26.67 min Scan# 7212  
 Delta R.T. -0.01 min  
 Lab File: BM027952.D  
 Acq: 24 Nov 2020 20:45

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 17.0  | 14.8  | 22.2  |
| 279     | 27.3  | 25.8  | 38.6  |





#26  
Benzo(a,h,i)perylene  
Concen: 6.528 ng/ul  
RT: 27.45 min Scan# 7532  
Delta R.T. 0.01 min  
Lab File: BM027952.D  
Acq: 24 Nov 2020 20:45

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 18.8  | 17.4  | 26.2  |
| 277     | 24.7  | 22.5  | 33.7  |

Instrument :  
BNA\_M  
ClientSampleId :  
C0B17DL

Manual Integrations  
APPROVED

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