

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM040921\  
 Data File : BM029428.D  
 Acq On : 09 Apr 2021 13:07  
 Operator : CG/JU  
 Sample : M1881-11  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 ESQG8

Manual Integrations  
 APPROVED

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 4/12/2021 2:46:03 PM

Quant Time: Apr 09 13:43:39 2021  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM040721MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri Apr 09 11:03:41 2021  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.69  | 152  | 93585    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.47 | 136  | 360242   | 20.00 | ng/ul | 0.00     |
| 36) Acenaphthene-d10      | 14.32 | 164  | 199937   | 20.00 | ng/ul | 0.00     |
| 62) Phenanthrene-d10      | 17.06 | 188  | 377508   | 20.00 | ng/ul | 0.00     |
| 78) Chrysene-d12          | 21.24 | 240  | 367960   | 20.00 | ng/ul | 0.00     |
| 86) Perylene-d12          | 23.45 | 264  | 393610   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.20  | 96  | 6064   | 2.47  | ng/uL | 0.01 |
| 5) Phenol-d5                   | 6.86  | 99  | 92645  | 11.82 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.03  | 67  | 69258  | 13.83 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.22  | 132 | 78708  | 13.28 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.39  | 113 | 45217  | 7.48  | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 8.84  | 128 | 33784  | 13.55 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.56  | 143 | 30338  | 11.58 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.09 | 165 | 62845  | 11.78 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.61 | 131 | 35977  | 5.54  | ng/ul | 0.00 |
| 44) Dimethylphthalate-d6       | 13.73 | 166 | 206981 | 14.45 | ng/ul | 0.00 |
| 47) Acenaphthylene-d8          | 14.02 | 160 | 244466 | 13.46 | ng/ul | 0.00 |
| 52) 4-Nitrophenol-d4           | 14.52 | 143 | 13895  | 5.29  | ng/ul | 0.00 |
| 58) Fluorene-d10               | 15.32 | 176 | 177140 | 14.64 | ng/ul | 0.00 |
| 63) 4,6-Dinitro-2-methylphenol | 15.43 | 200 | 8815   | 4.11  | ng/ul | 0.00 |
| 71) Anthracene-d10             | 17.16 | 188 | 256633 | 14.96 | ng/ul | 0.00 |
| 79) Pyrene-d10                 | 19.45 | 212 | 282136 | 15.97 | ng/ul | 0.00 |
| 90) Benzo(a)pyrene-d12         | 23.31 | 264 | 303030 | 15.09 | ng/ul | 0.00 |

## Target Compounds

|                            |       |     |         |        | Ovalue |     |
|----------------------------|-------|-----|---------|--------|--------|-----|
| 4) Benzaldehyde            | 6.84  | 77  | 8617    | 1.985  | ng/ul  | 92  |
| 6) Phenol                  | 6.89  | 94  | 14961   | 1.789  | ng/ul  | 100 |
| 14) Acetophenone           | 8.51  | 105 | 56614   | 5.731  | ng/ul  | 97  |
| 45) Dimethylphthalate      | 13.78 | 163 | 15703   | 1.067  | ng/ul# | 95  |
| 48) Acenaphthylene         | 14.04 | 152 | 21037   | 1.191  | ng/ul  | 98  |
| 59) Fluorene               | 15.37 | 166 | 21550   | 1.425  | ng/ul  | 96  |
| 70) Phenanthrene           | 17.10 | 178 | 429339  | 19.755 | ng/ul  | 100 |
| 72) Anthracene             | 17.19 | 178 | 105102  | 4.712  | ng/ul  | 99  |
| 75) Carbazole              | 17.46 | 167 | 25687   | 1.272  | ng/ul  | 98  |
| 77) Fluoranthene           | 19.12 | 202 | 882551  | 35.875 | ng/ul  | 99  |
| 80) Pyrene                 | 19.48 | 202 | 734872  | 30.157 | ng/ul  | 97  |
| 83) Benzo(a)anthracene     | 21.23 | 228 | 356855  | 15.381 | ng/ul  | 95  |
| 85) Chrysene               | 21.27 | 228 | 354123  | 15.610 | ng/ul  | 95  |
| 88) Benzo(b)fluoranthene   | 22.79 | 252 | 481963  | 19.021 | ng/ul# | 93  |
| 89) Benzo(k)fluoranthene   | 22.83 | 252 | 137176m | 5.513  | ng/ul  |     |
| 91) Benzo(a)pyrene         | 23.36 | 252 | 317673  | 14.132 | ng/ul# | 95  |
| 92) Indeno(1,2,3-cd)pyrene | 25.67 | 276 | 224133  | 7.618  | ng/ul  | 97  |
| 93) Dibenzo(a,h)anthracene | 25.67 | 278 | 56425   | 2.283  | ng/ul# | 75  |
| 94) Benzo(g,h,i)perylene   | 26.36 | 276 | 200878  | 8.407  | ng/ul  | 99  |

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

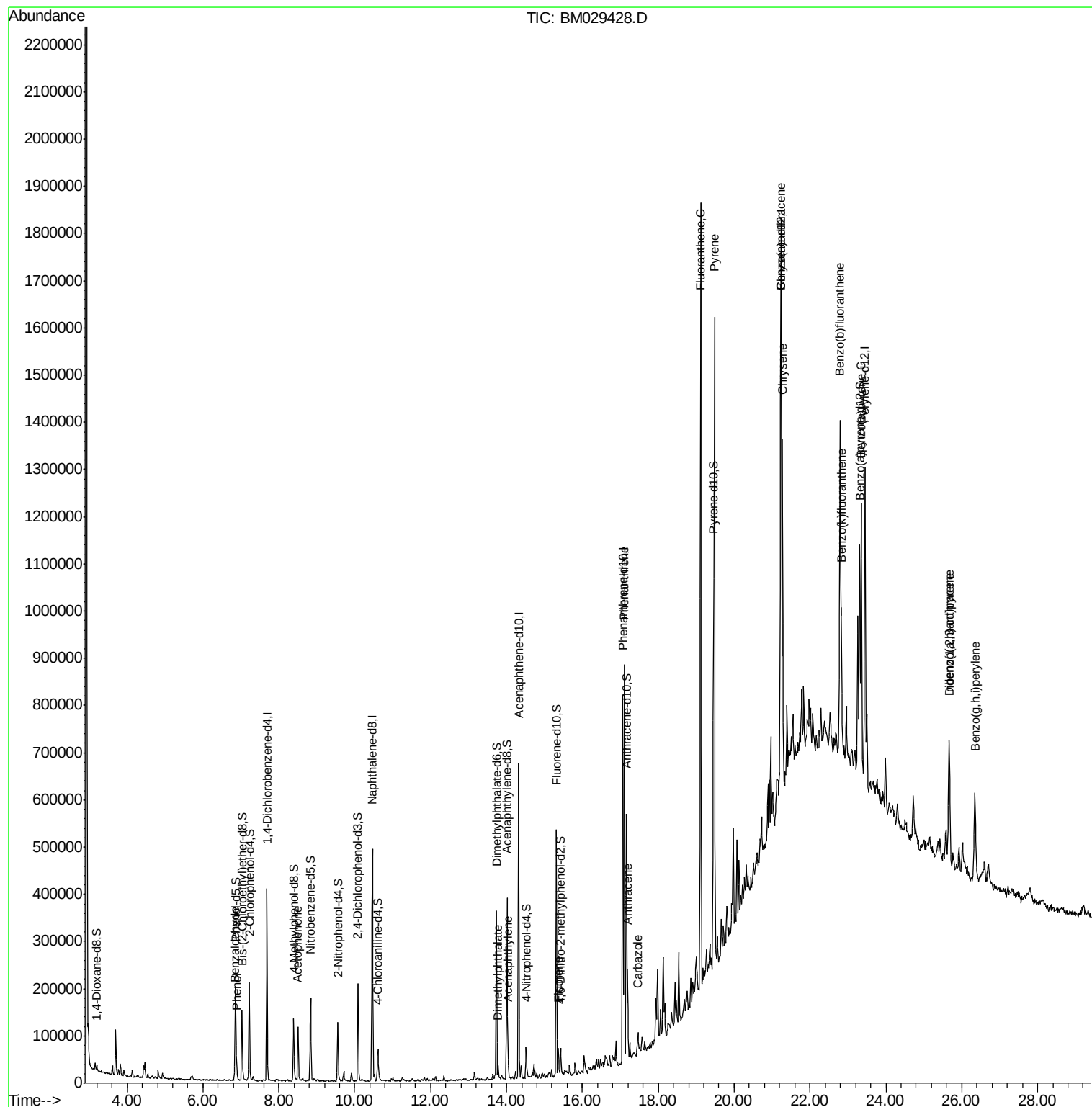
Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM040921\  
Data File : BM029428.D  
Acq On : 09 Apr 2021 13:07  
Operator : CG/JU  
Sample : M1881-11  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

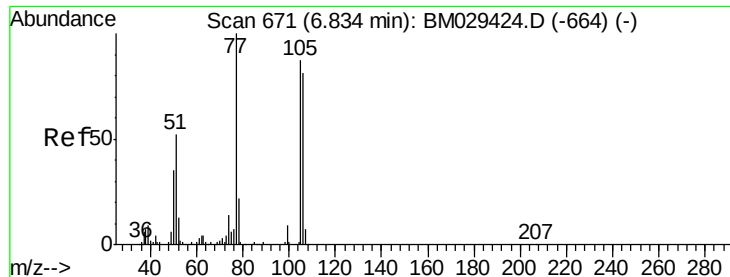
Instrument :  
BNA\_M  
ClientSampleId :  
ESQG8

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Quant Time: Apr 09 13:43:39 2021  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM040721MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Fri Apr 09 11:03:41 2021  
Response via : Initial Calibration





#4

Benzaldehyde

Concen: 1.985 ng/ul

RT: 6.84 min Scan# 672

Delta R.T. 0.01 min

Lab File: BM029428.D

Acq: 09 Apr 2021 13:07

Instrument :

BNA\_M

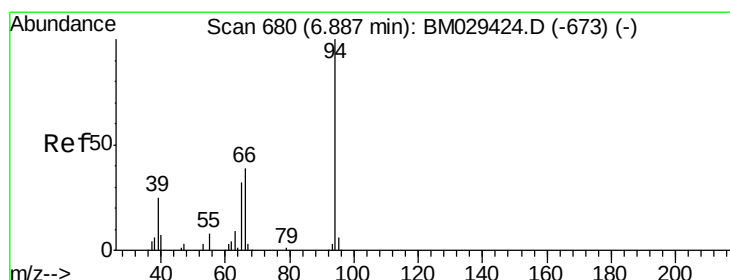
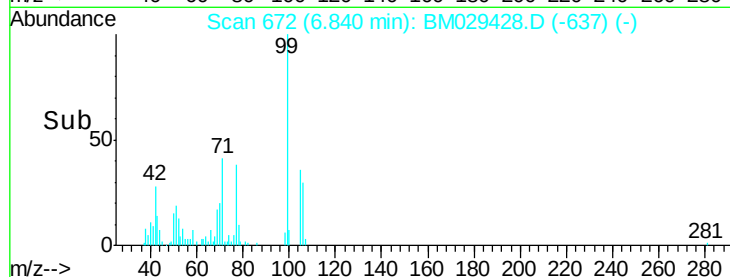
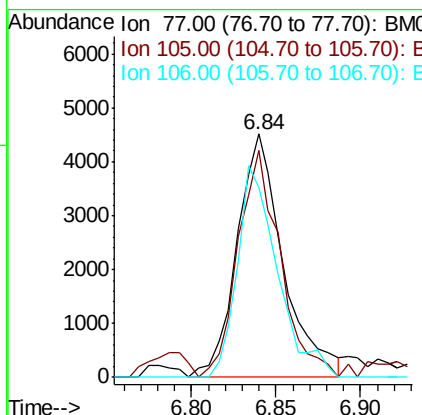
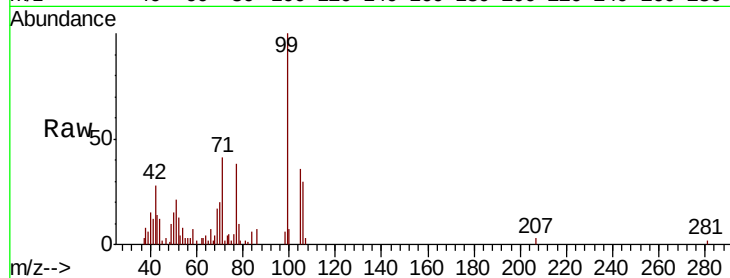
ClientSampleId :

ESQG8

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 77    | Resp: | 8617  |
| Ion      | Ratio | Lower | Upper |
| 77       | 100   |       |       |
| 105      | 93.2  | 67.2  | 100.8 |
| 106      | 77.9  | 66.3  | 99.5  |

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#6

Phenol

Concen: 1.789 ng/ul

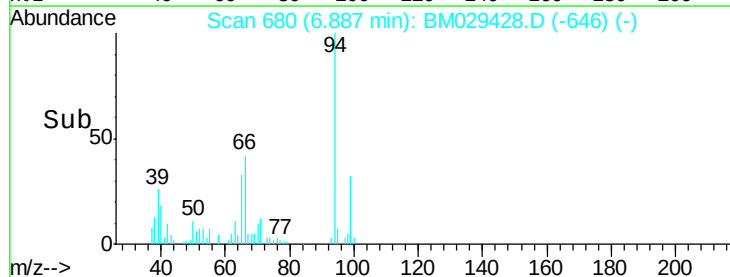
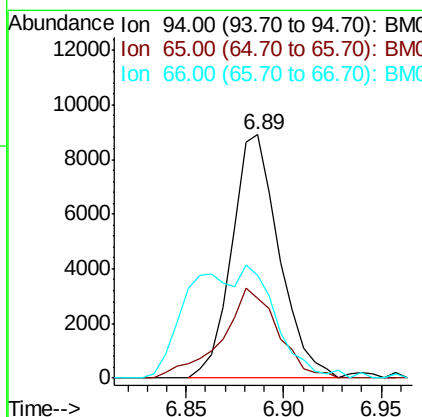
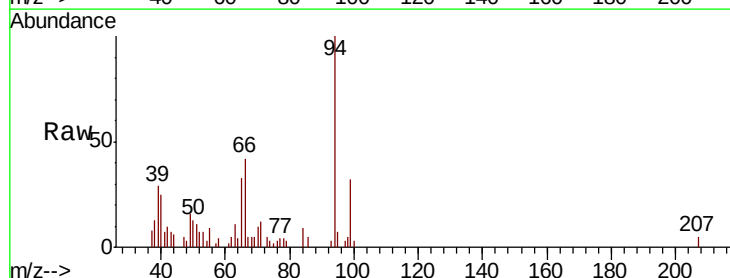
RT: 6.89 min Scan# 680

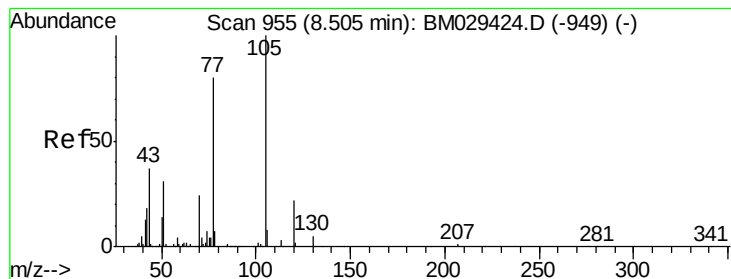
Delta R.T. -0.00 min

Lab File: BM029428.D

Acq: 09 Apr 2021 13:07

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 94    | Resp: | 14961 |
| Ion      | Ratio | Lower | Upper |
| 94       | 100   |       |       |
| 65       | 33.0  | 26.7  | 40.1  |
| 66       | 42.2  | 33.8  | 50.8  |





#14

Acetophenone

Concen: 5.731 ng/ul

RT: 8.51 min Scan# 956

Delta R.T. 0.01 min

Lab File: BM029428.D

Acq: 09 Apr 2021 13:07

Instrument :

BNA\_M

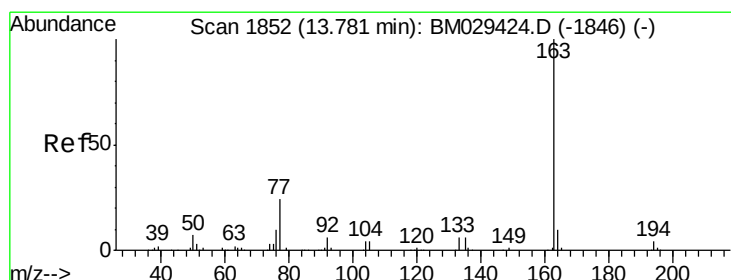
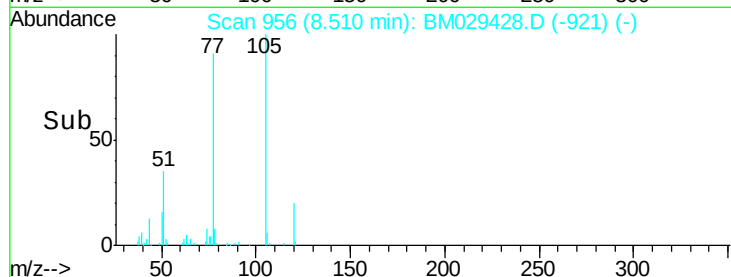
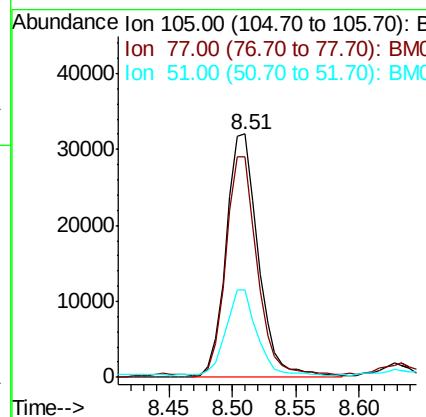
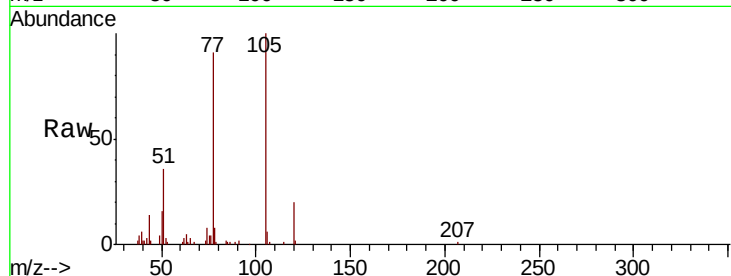
ClientSampleId :

ESQG8

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 105   | Resp: | 56614 |
| Ion Ratio | Lower | Upper |       |
| 105       | 100   |       |       |
| 77        | 90.7  | 71.8  | 107.6 |
| 51        | 35.7  | 25.3  | 37.9  |

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#45

Dimethylphthalate

Concen: 1.067 ng/ul

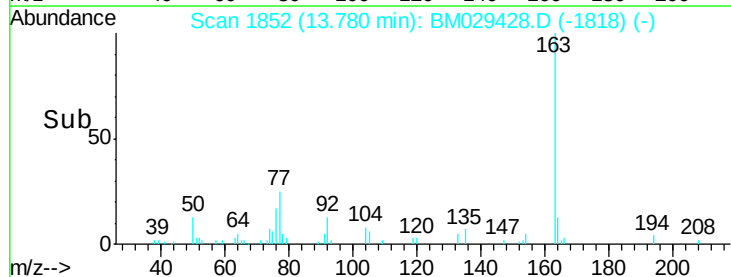
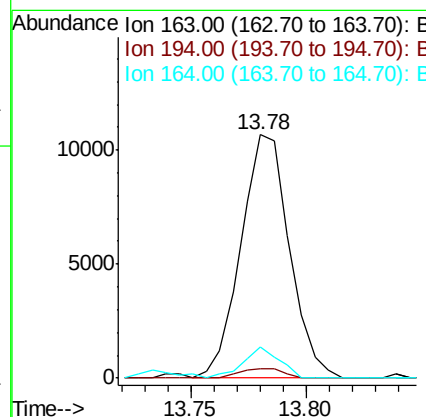
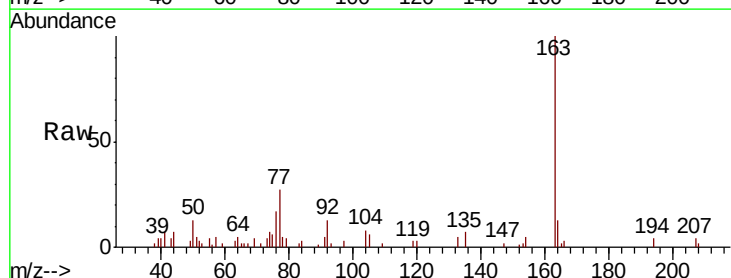
RT: 13.78 min Scan# 1852

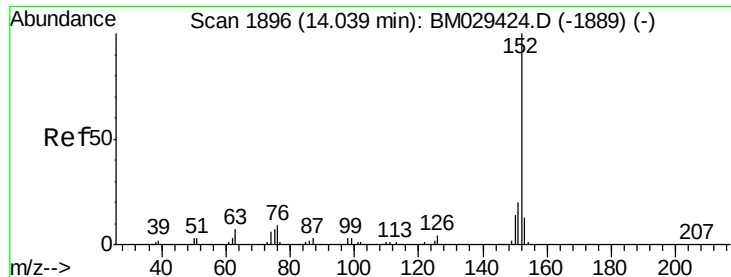
Delta R.T. -0.00 min

Lab File: BM029428.D

Acq: 09 Apr 2021 13:07

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 163   | Resp: | 15703 |
| Ion Ratio | Lower | Upper |       |
| 163       | 100   |       |       |
| 194       | 3.6   | 3.0   | 4.6   |
| 164       | 12.5  | 8.1   | 12.1# |





#48

Acenaphthylene

Concen: 1.191 ng/ul

RT: 14.04 min Scan# 1896

Delta R.T. -0.00 min

Lab File: BM029428.D

Acq: 09 Apr 2021 13:07

Instrument :

BNA\_M

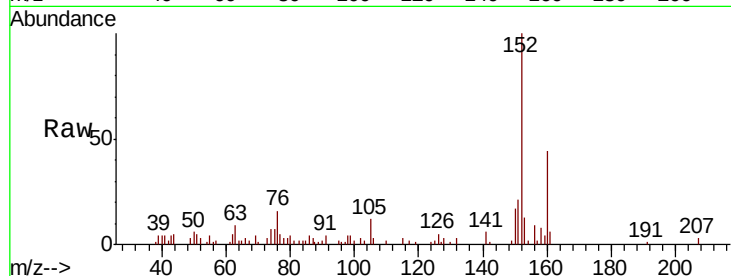
ClientSampleId :

ESQG8

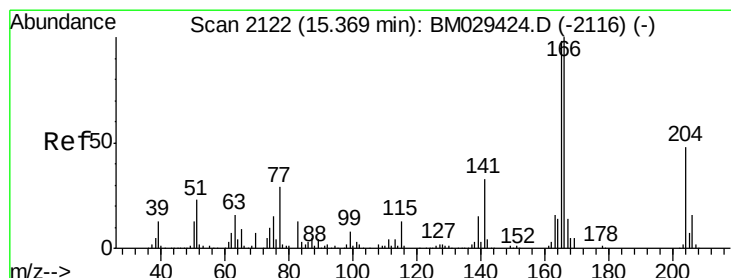
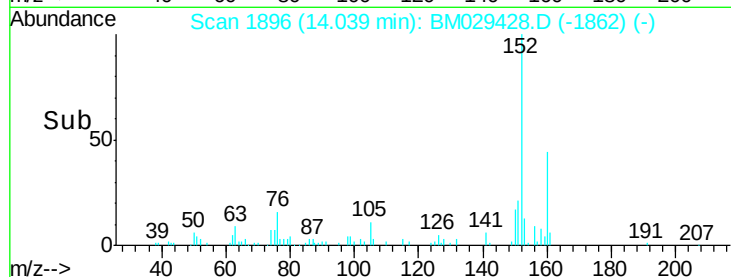
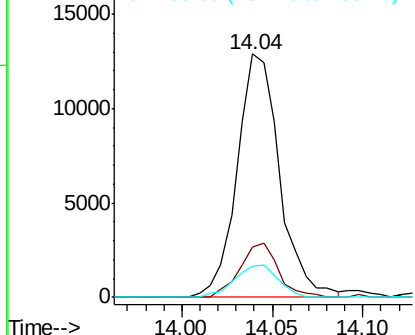
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 152   | Resp: | 21037 |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 20.5  | 15.7  | 23.5  |
| 153       | 12.8  | 10.6  | 16.0  |

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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



#59

Fluorene

Concen: 1.425 ng/ul

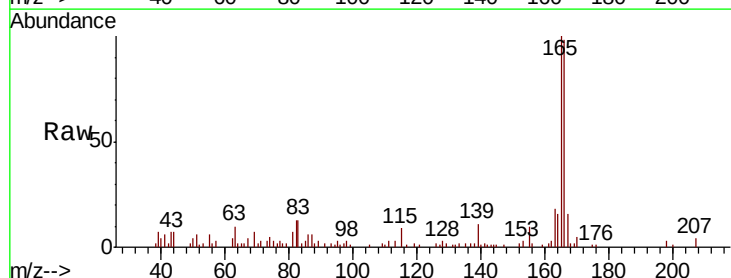
RT: 15.37 min Scan# 2122

Delta R.T. -0.00 min

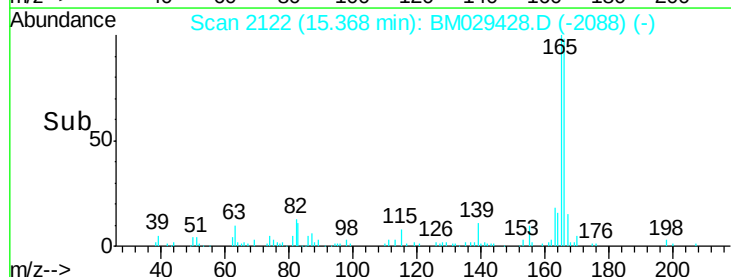
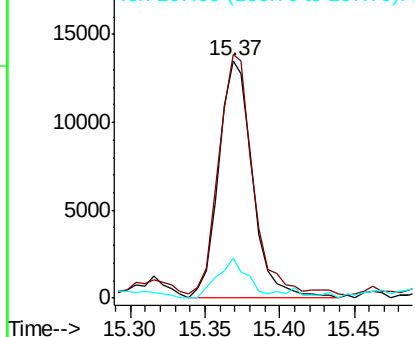
Lab File: BM029428.D

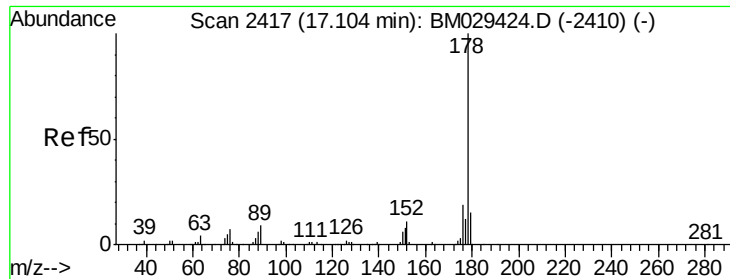
Acq: 09 Apr 2021 13:07

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 166   | Resp: | 21550 |
| Ion Ratio | Lower | Upper |       |
| 166       | 100   |       |       |
| 165       | 102.4 | 78.9  | 118.3 |
| 167       | 16.8  | 11.3  | 16.9  |



Abundance Ion 166.00 (165.70 to 166.70): E  
Ion 165.00 (164.70 to 165.70): E  
Ion 167.00 (166.70 to 167.70): E





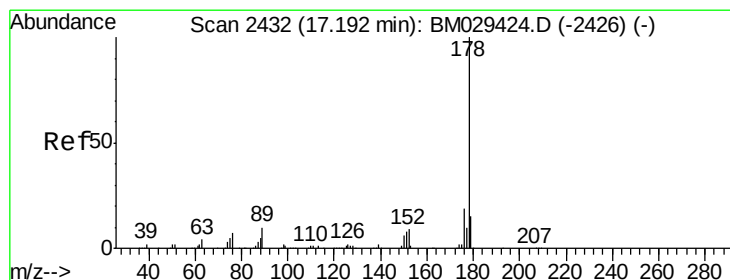
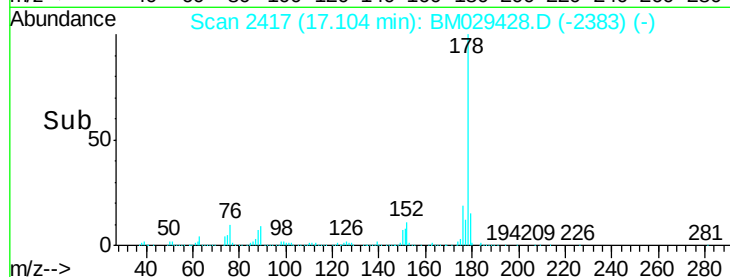
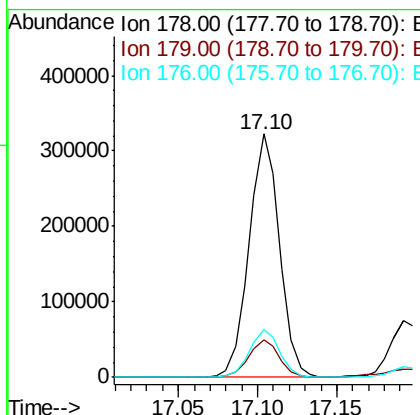
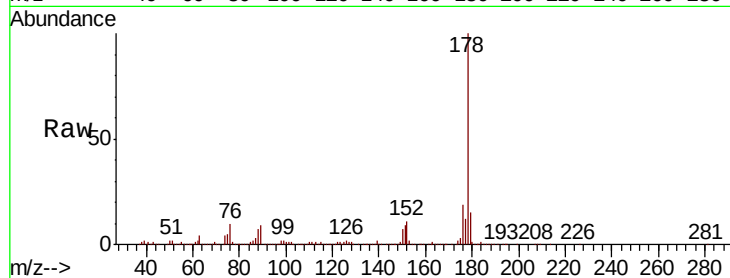
#70  
Phenanthrene  
Concen: 19.755 ng/ul  
RT: 17.10 min Scan# 2417  
Delta R.T. -0.00 min  
Lab File: BM029428.D  
Acq: 09 Apr 2021 13:07

Instrument :  
BNA\_M  
ClientSampleId :  
ESQG8

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 15.2  | 12.2  | 18.2  |
| 176     | 19.4  | 15.4  | 23.2  |

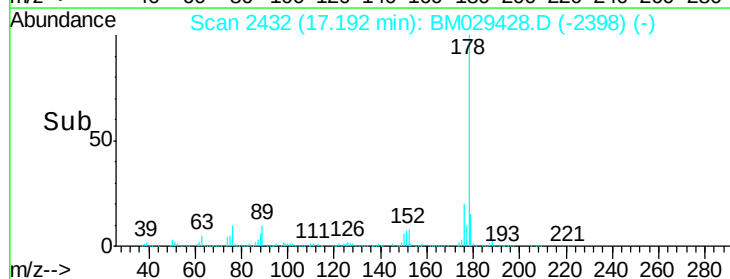
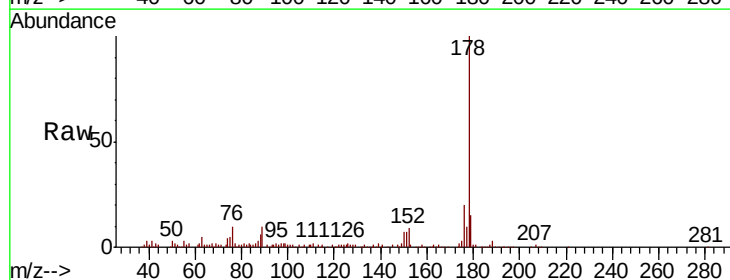
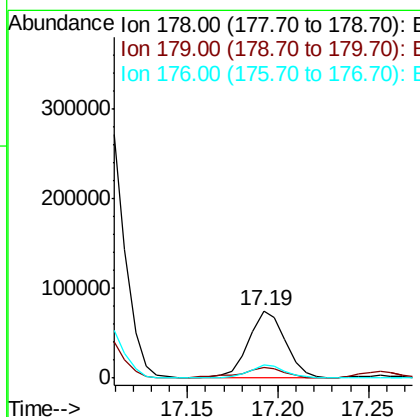
Manual Integrations  
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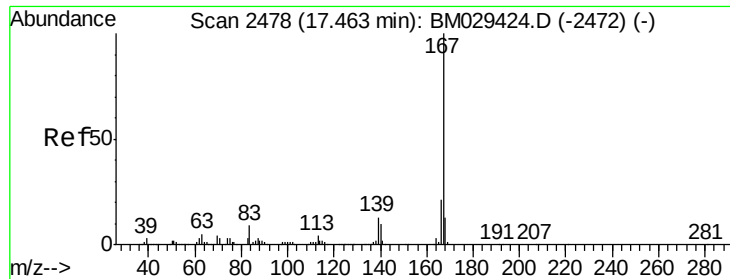
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#72  
Anthracene  
Concen: 4.712 ng/ul  
RT: 17.19 min Scan# 2432  
Delta R.T. -0.00 min  
Lab File: BM029428.D  
Acq: 09 Apr 2021 13:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 15.3  | 12.6  | 19.0  |
| 176     | 19.6  | 15.4  | 23.0  |





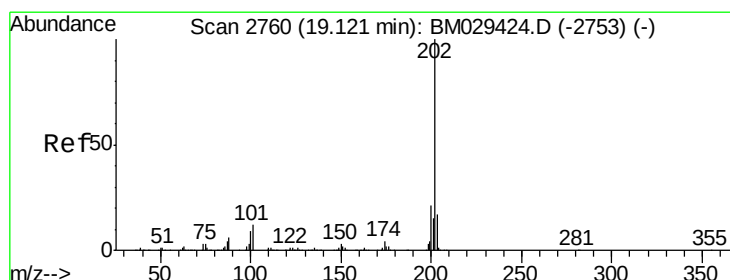
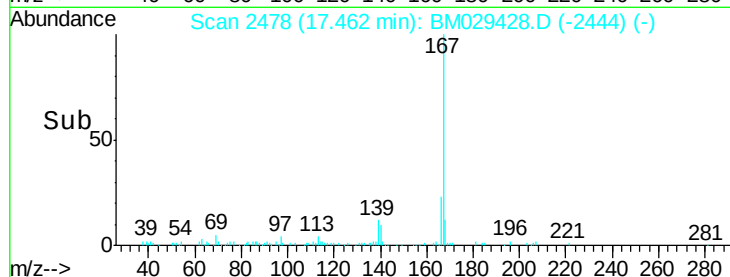
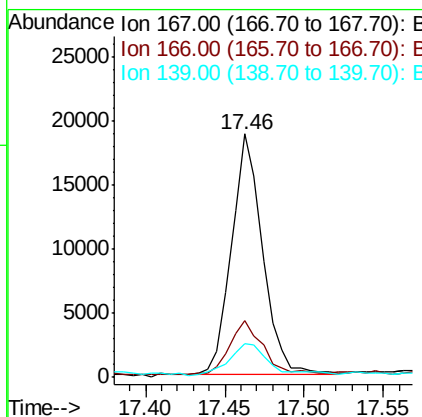
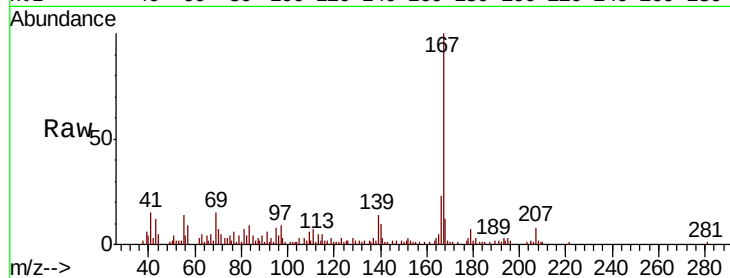
#75  
 Carbazole  
 Concen: 1.272 ng/ul  
 RT: 17.46 min Scan# 2478  
 Delta R.T. -0.00 min  
 Lab File: BM029428.D  
 Acq: 09 Apr 2021 13:07

Instrument :  
 BNA\_M  
 ClientSampleId :  
 ESQG8

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 167   | Resp: | 25687 |
| Ion Ratio | Lower | Upper |       |
| 167       | 100   |       |       |
| 166       | 23.2  | 17.3  | 25.9  |
| 139       | 13.6  | 10.6  | 16.0  |

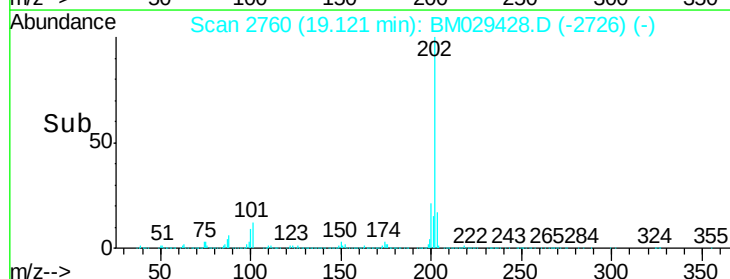
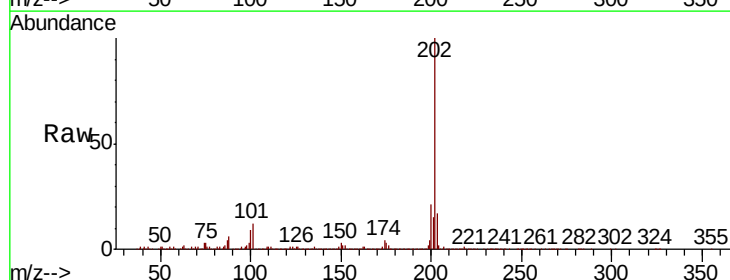
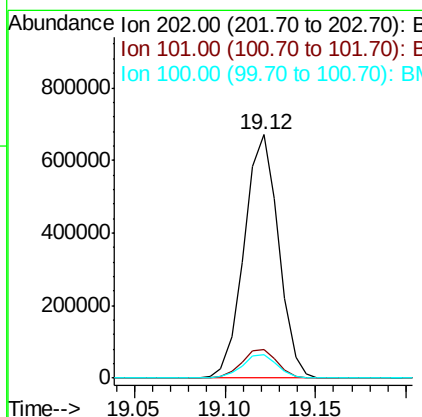
Manual Integrations  
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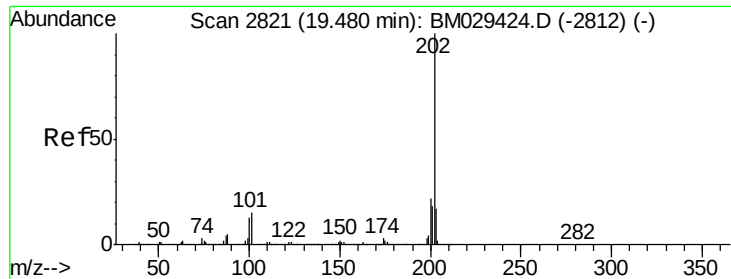
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 4/12/2021 2:46:03 PM



#77  
 Fluoranthene  
 Concen: 35.875 ng/ul  
 RT: 19.12 min Scan# 2760  
 Delta R.T. -0.00 min  
 Lab File: BM029428.D  
 Acq: 09 Apr 2021 13:07

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 882551 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 11.9  | 9.8   | 14.6   |
| 100       | 9.4   | 7.4   | 11.0   |





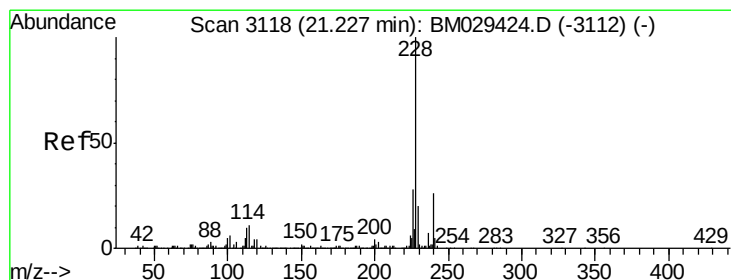
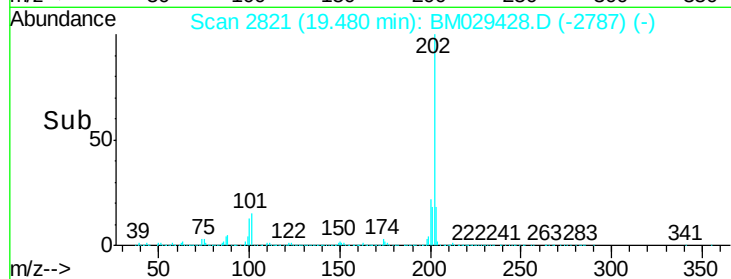
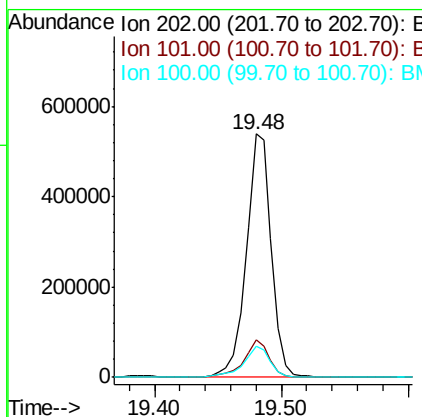
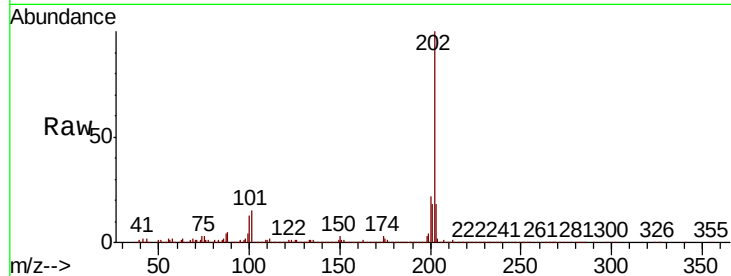
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Pvrene  
Concen: 30.157 ng/ul  
RT: 19.48 min Scan# 2821  
Delta R.T. -0.00 min  
Lab File: BM029428.D  
Acq: 09 Apr 2021 13:07

Instrument :  
BNA\_M  
ClientSampleId :  
ESQG8

| Tot Ion | Ion  | Ratio | Resp | Lower | Upper |
|---------|------|-------|------|-------|-------|
| 202     | 100  |       |      |       |       |
| 101     | 15.2 |       | 11.0 | 16.6  |       |
| 100     | 12.8 |       | 9.5  | 14.3  |       |

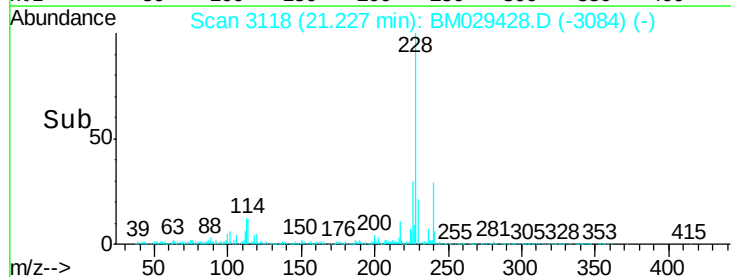
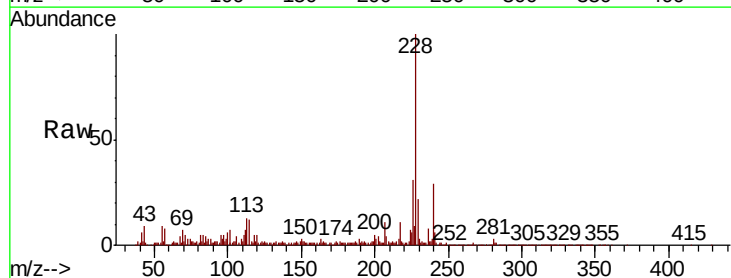
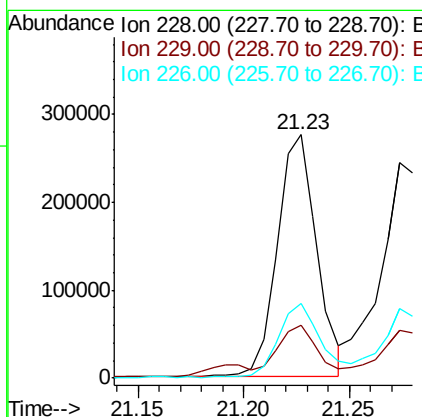
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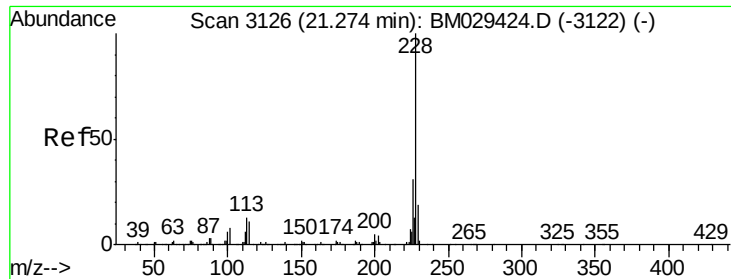


#83  
Benzo(a)anthracene  
Concen: 15.381 ng/ul  
RT: 21.23 min Scan# 3118  
Delta R.T. -0.00 min  
Lab File: BM029428.D  
Acq: 09 Apr 2021 13:07

| Tgt Ion | Ion  | Ratio | Resp | Lower | Upper |
|---------|------|-------|------|-------|-------|
| 228     | 100  |       |      |       |       |
| 229     | 21.7 |       | 15.7 | 23.5  |       |
| 226     | 30.6 |       | 22.3 | 33.5  |       |







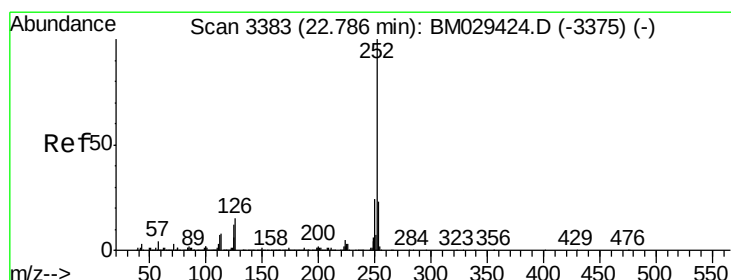
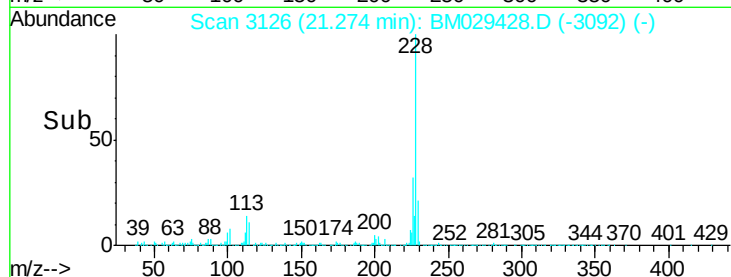
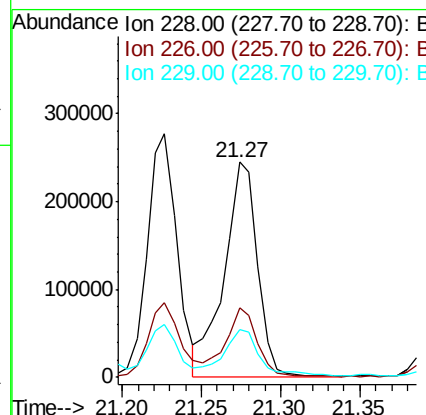
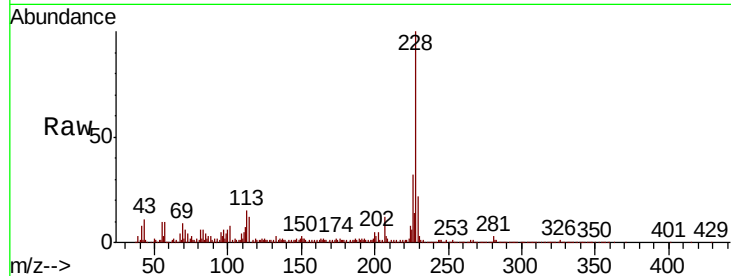
#85  
Chrysene  
Concen: 15.610 ng/ul  
RT: 21.27 min Scan# 3126  
Delta R.T. -0.00 min  
Lab File: BM029428.D  
Acq: 09 Apr 2021 13:07

Instrument :  
BNA\_M  
ClientSampleId :  
ESQG8

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 32.0  | 24.0  | 36.0  |
| 229     | 21.9  | 15.4  | 23.0  |

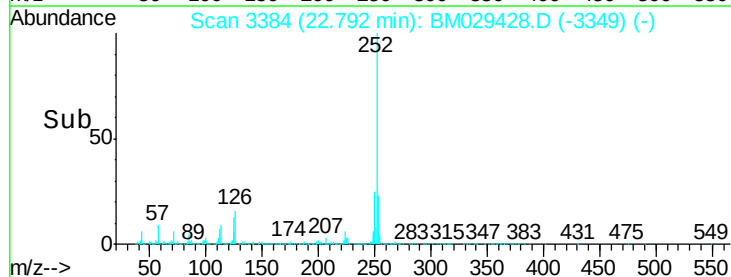
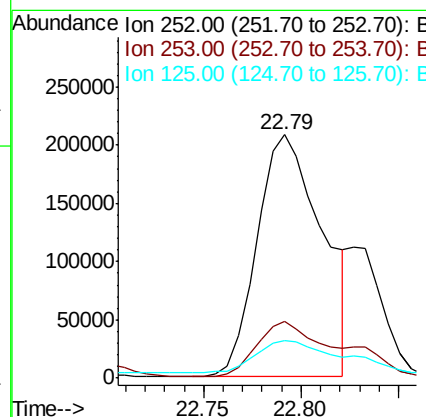
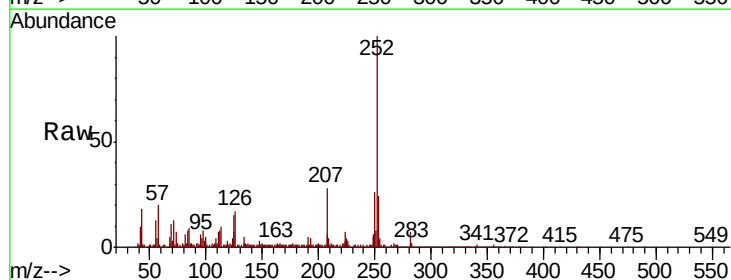
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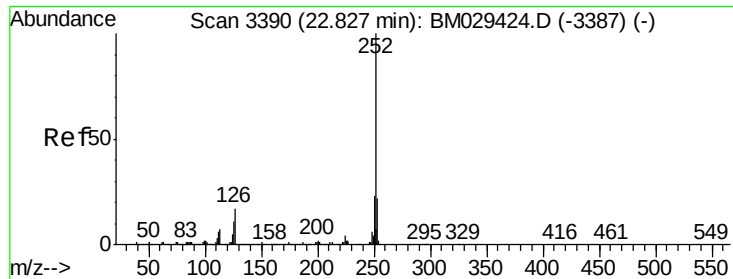
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#88  
Benzo(b)fluoranthene  
Concen: 19.021 ng/ul  
RT: 22.79 min Scan# 3384  
Delta R.T. 0.01 min  
Lab File: BM029428.D  
Acq: 09 Apr 2021 13:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.5  | 17.2  | 25.8  |
| 125     | 15.2  | 8.8   | 13.2  |





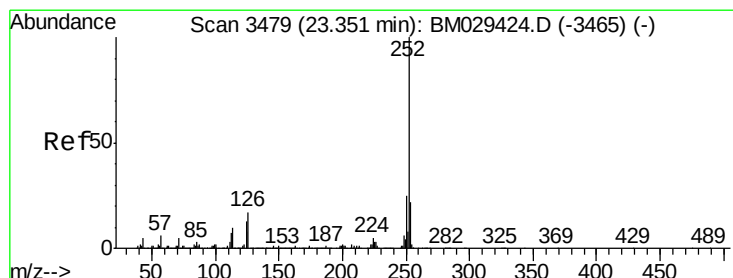
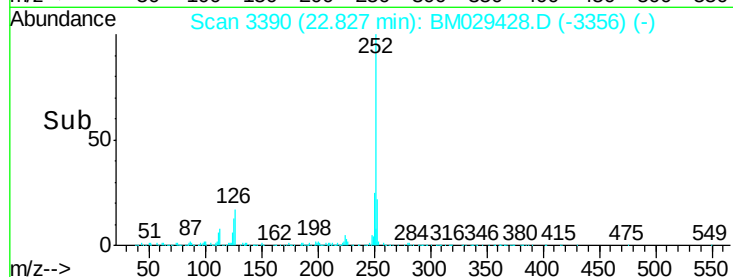
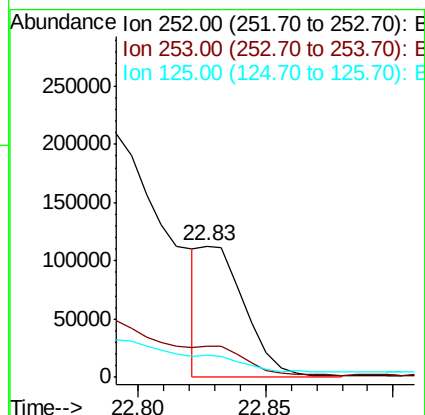
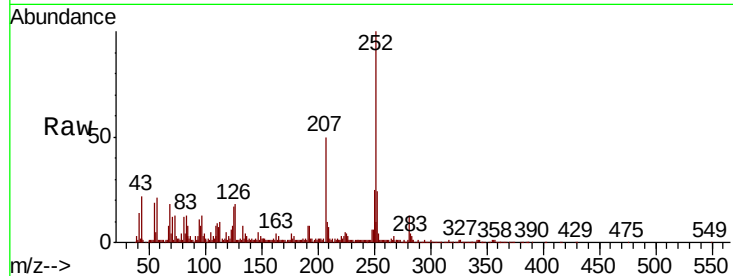
#89  
Benzo(k)fluoranthene  
Concen: 5.513 ng/ul m  
RT: 22.83 min Scan# 3390  
Delta R.T. -0.00 min  
Lab File: BM029428.D  
Acq: 09 Apr 2021 13:07

Instrument :  
BNA\_M  
ClientSampled :  
ESQG8

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.6  | 17.1  | 25.7  |
| 125     | 16.9  | 9.4   | 14.0  |

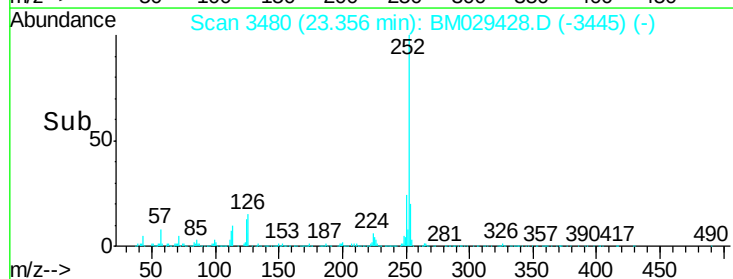
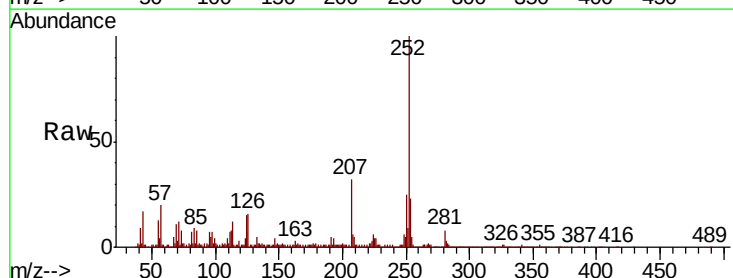
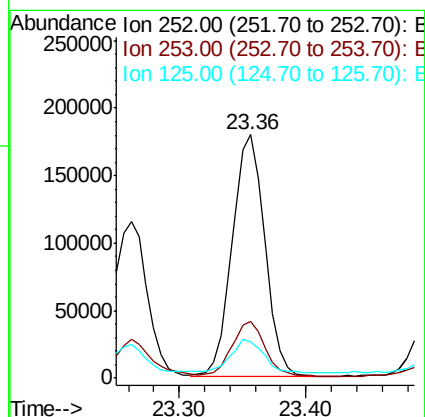
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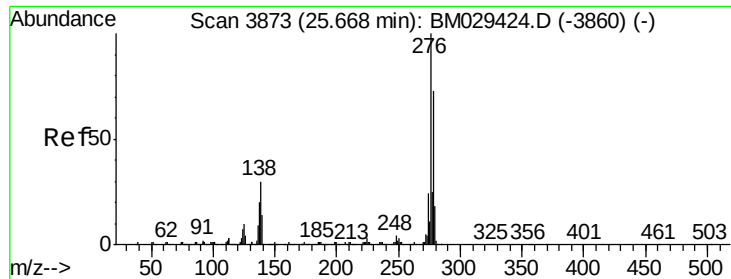
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#91  
Benzo(a)pyrene  
Concen: 14.132 ng/ul  
RT: 23.36 min Scan# 3480  
Delta R.T. 0.01 min  
Lab File: BM029428.D  
Acq: 09 Apr 2021 13:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.2  | 17.2  | 25.8  |
| 125     | 14.9  | 9.8   | 14.8  |





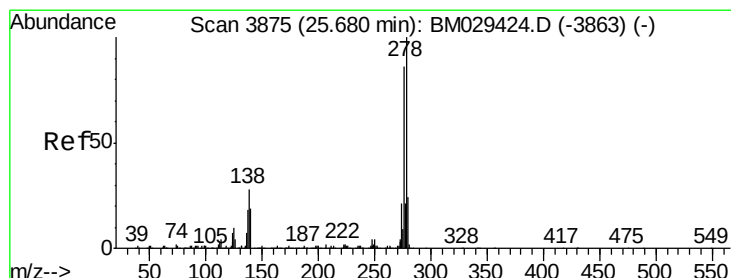
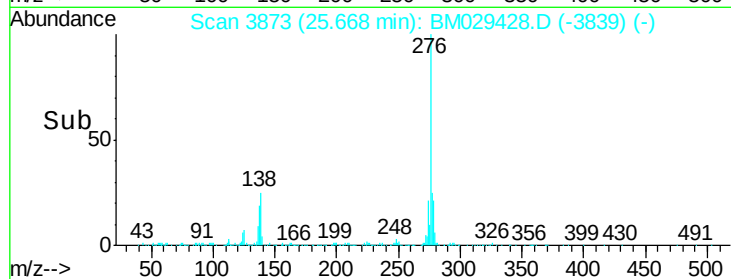
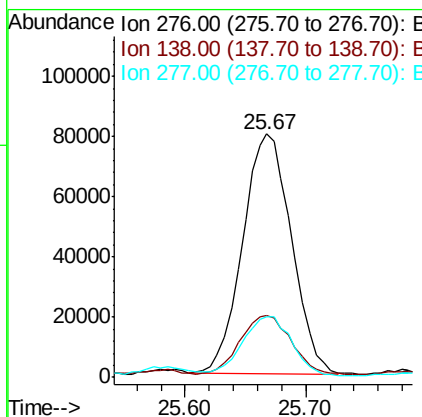
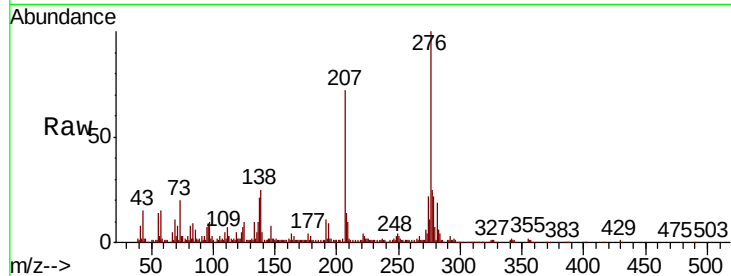
#92  
Indeno(1,2,3-cd)pyrene  
Concen: 7.618 ng/ul  
RT: 25.67 min Scan# 3873  
Delta R.T. -0.00 min  
Lab File: BM029428.D  
Acq: 09 Apr 2021 13:07

Instrument :  
BNA\_M  
ClientSampled :  
ESQG8

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 25.4  | 22.3  | 33.5  |
| 277     | 25.0  | 19.7  | 29.5  |

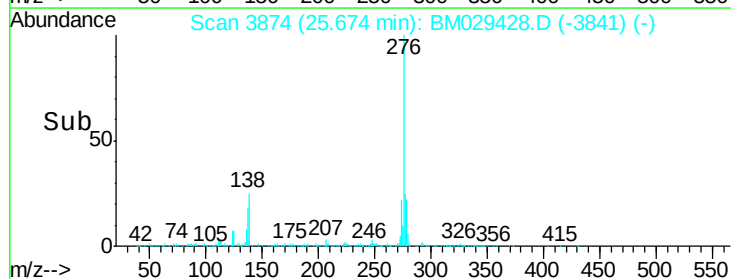
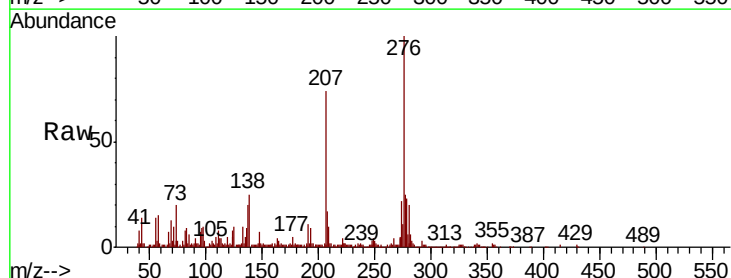
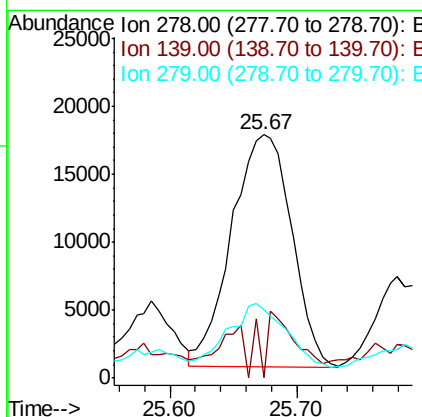
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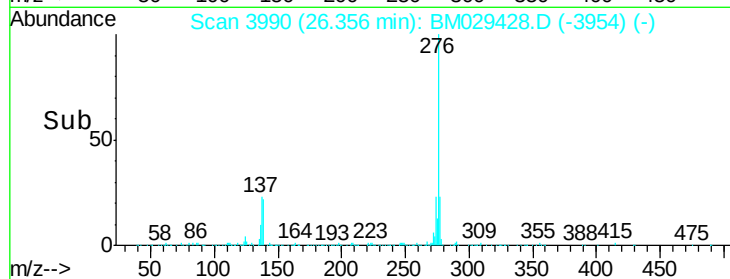
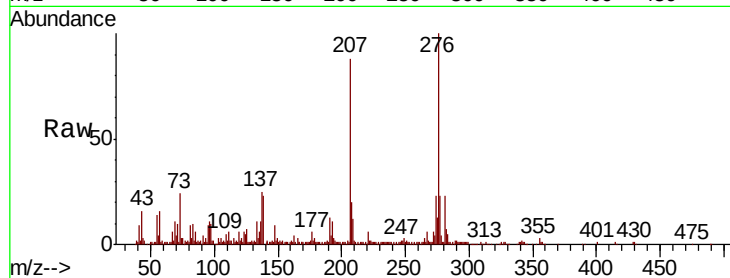
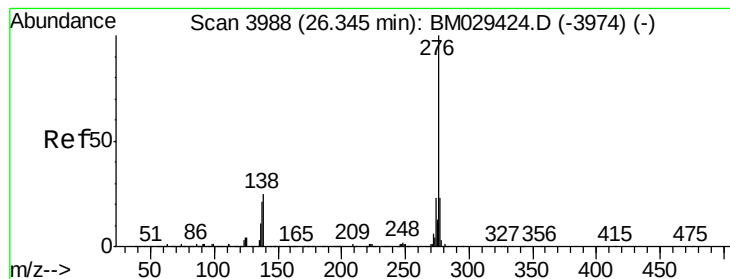
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#93  
Dibenzo(a,h)anthracene  
Concen: 2.283 ng/ul  
RT: 25.67 min Scan# 3874  
Delta R.T. -0.01 min  
Lab File: BM029428.D  
Acq: 09 Apr 2021 13:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 0.0   | 14.7  | 22.1# |
| 279     | 28.1  | 18.2  | 27.2# |





#94

Benzo(a,h,i)perylene

Concen: 8.407 ng/ul

RT: 26.36 min Scan# 3990

Delta R.T. 0.01 min

Lab File: BM029428.D

Acq: 09 Apr 2021 13:07

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 276   | Resp: | 200878 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 138       | 23.4  | 19.5  | 29.3   |
| 277       | 23.1  | 18.8  | 28.2   |

Instrument :

BNA\_M

ClientSampleId :

ESQG8

Manual Integrations  
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