

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM061120\  
 Data File : BM026370.D  
 Acq On : 12 Jun 2020 03:02  
 Operator : JU/CG  
 Sample : L2810-01DL 4X  
 Misc :  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 CL-02-060920DL

Manual Integrations  
 APPROVED

mohammad  
 6/15/2020 8:43:42 AM

Quant Time: Jun 12 04:38:01 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM060520.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jun 09 14:46:47 2020  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.42  | 152  | 148456   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8          | 10.18 | 136  | 574026   | 20.00  | ng    | 0.00     |
| 39) Acenaphthene-d10        | 14.07 | 164  | 317726   | 20.00  | ng    | 0.00     |
| 64) Phenanthrene-d10        | 16.83 | 188  | 627734   | 20.00  | ng    | 0.00     |
| 76) Chrysene-d12            | 21.04 | 240  | 671029   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12            | 23.14 | 264  | 746439   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.06  | 112  | 161037   | 19.18  | ng    | 0.00     |
| 7) Phenol-d6                | 6.63  | 99   | 211897   | 17.43  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 8.57  | 82   | 140020   | 11.98  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 15.58 | 330  | 67492    | 17.54  | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 12.69 | 172  | 286759   | 13.70  | ng    | 0.00     |
| 79) Terphenyl-d14           | 19.49 | 244  | 405722   | 11.74  | ng    | 0.00     |
| Target Compounds            |       |      |          |        |       |          |
| 49) Acenaphthylene          | 13.79 | 152  | 80629    | 2.786  | ng    | 99       |
| 52) Acenaphthene            | 14.14 | 154  | 50295    | 2.895  | ng    | 95       |
| 58) Fluorene                | 15.13 | 166  | 109903   | 4.834  | ng    | 99       |
| 71) Phenanthrene            | 16.87 | 178  | 1324111  | 40.506 | ng    | 100      |
| 72) Anthracene              | 16.96 | 178  | 430357   | 13.191 | ng    | 100      |
| 75) Fluoranthene            | 18.90 | 202  | 2226442  | 59.406 | ng    | 100      |
| 78) Pyrene                  | 19.27 | 202  | 1912867  | 43.144 | ng    | 100      |
| 81) Benzo(a)anthracene      | 21.03 | 228  | 1106145  | 27.463 | ng    | 98       |
| 83) Chrysene                | 21.08 | 228  | 879319   | 22.909 | ng    | 98       |
| 87) Indeno(1,2,3-cd)pyrene  | 25.21 | 276  | 637100   | 14.755 | ng    | 96       |
| 88) Benzo(b)fluoranthene    | 22.53 | 252  | 1272619m | 28.342 | ng    |          |
| 89) Benzo(k)fluoranthene    | 22.56 | 252  | 411299m  | 9.428  | ng    |          |
| 90) Benzo(a)pyrene          | 23.06 | 252  | 986064   | 24.725 | ng    | 98       |
| 91) Dibenzo(a,h)anthracene  | 25.21 | 278  | 162606   | 4.511  | ng    | # 81     |
| 92) Benzo(a,h,i)perylene    | 25.83 | 276  | 618789   | 18.039 | ng    | 98       |

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

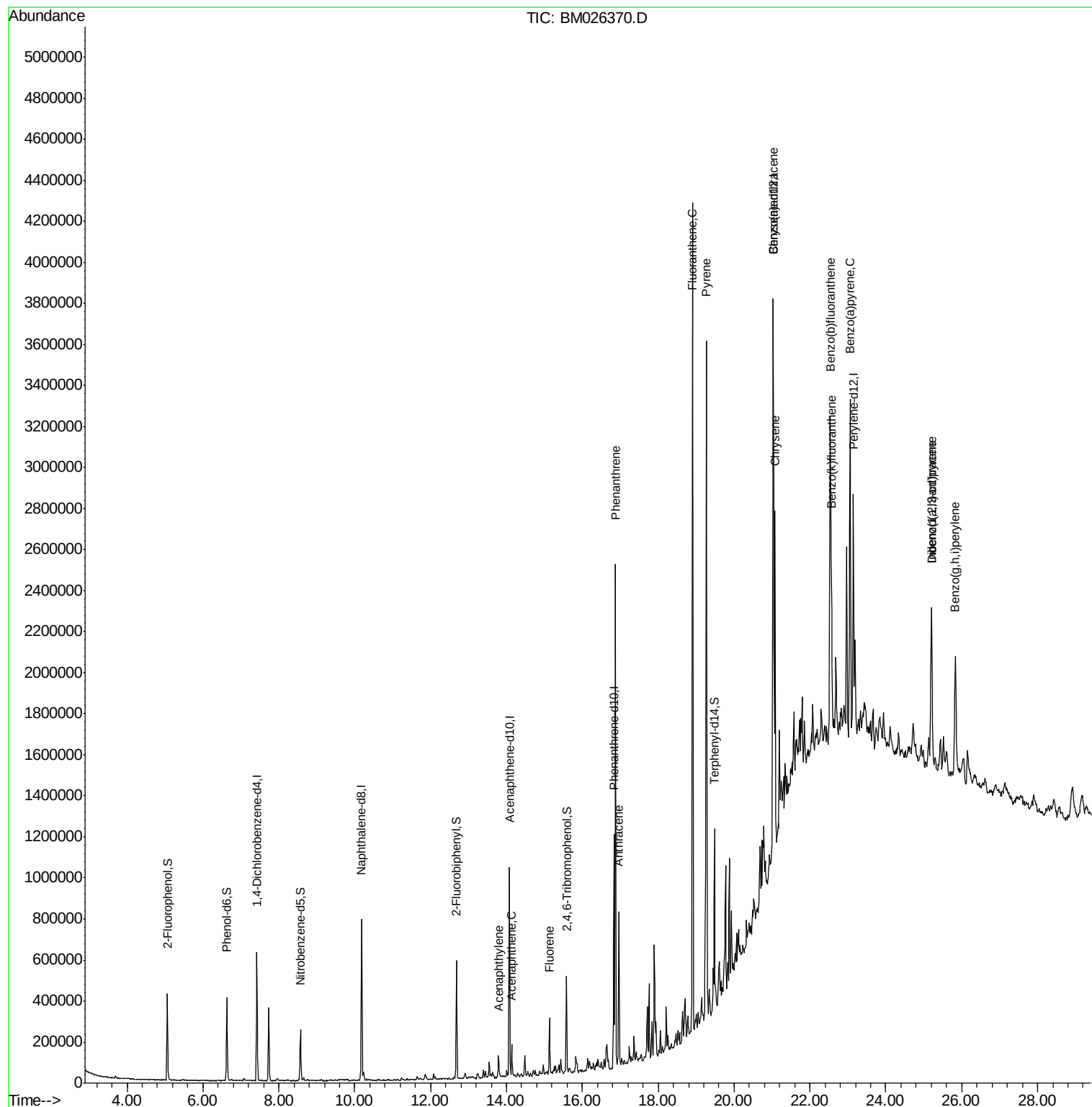
Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM061120\  
Data File : BM026370.D  
Acq On : 12 Jun 2020 03:02  
Operator : JU/CG  
Sample : L2810-01DL 4X  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

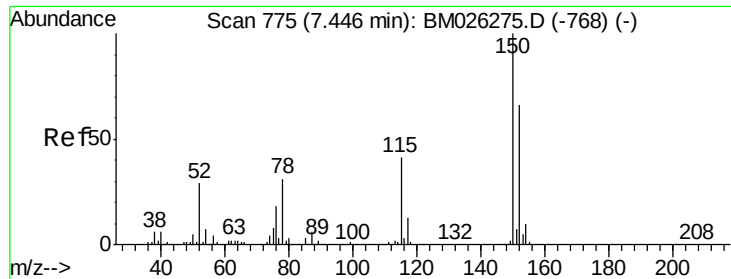
Instrument :  
BNA\_M  
ClientSampleId :  
CL-02-060920DL

Manual Integrations  
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6/15/2020 8:43:42 AM

Quant Time: Jun 12 04:38:01 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM060520.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Jun 09 14:46:47 2020  
Response via : Initial Calibration





#1

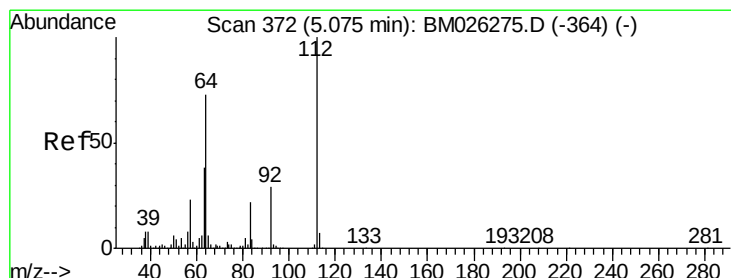
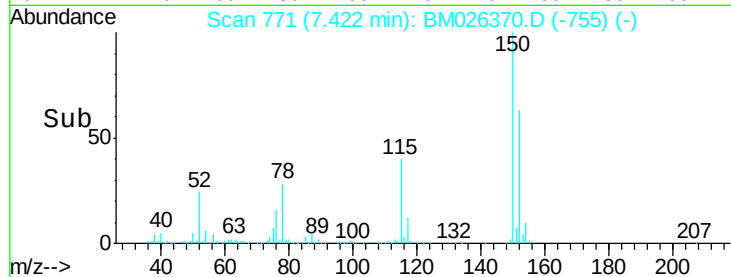
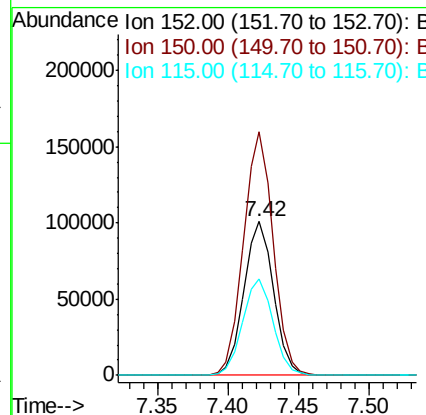
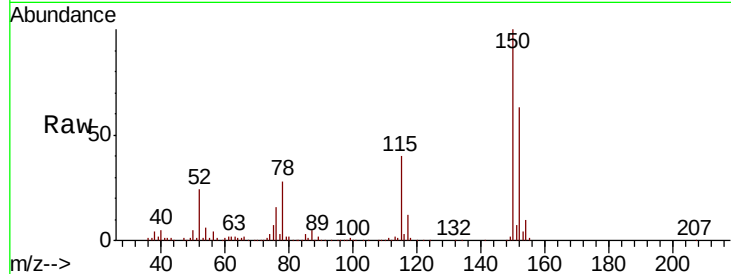
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.42 min Scan# 771  
Delta R.T. -0.01 min  
Lab File: BM026370.D  
Acq: 12 Jun 2020 03:02

Instrument :  
BNA\_M  
ClientSampleId :  
CL-02-060920DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 158.3 | 122.1 | 183.1 |
| 115     | 63.1  | 49.7  | 74.5  |

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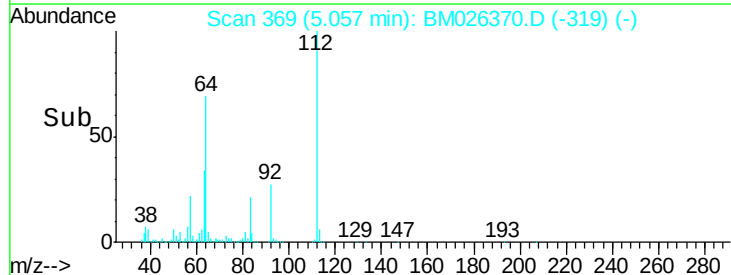
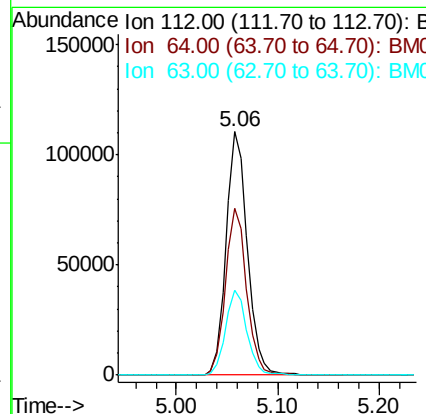
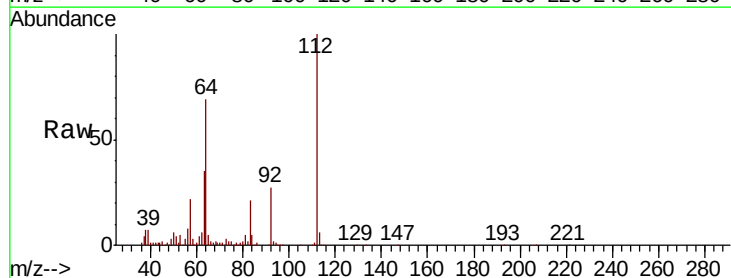
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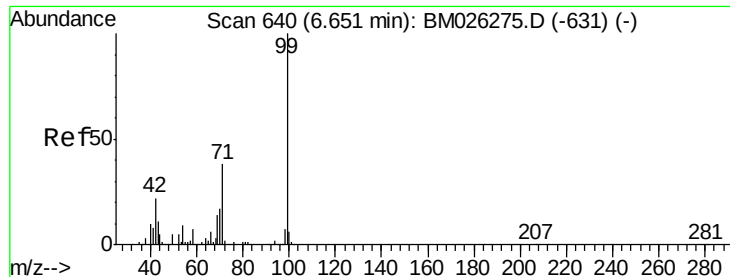


#5

2-Fluorophenol  
Concen: 19.179 ng  
RT: 5.06 min Scan# 369  
Delta R.T. -0.01 min  
Lab File: BM026370.D  
Acq: 12 Jun 2020 03:02

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 68.5  | 58.1  | 87.1  |
| 63      | 34.6  | 30.6  | 45.8  |





#7

Phenol-d6

Concen: 17.427 ng

RT: 6.63 min Scan# 636

Delta R.T. -0.01 min

Lab File: BM026370.D

Acq: 12 Jun 2020 03:02

Instrument :

BNA\_M

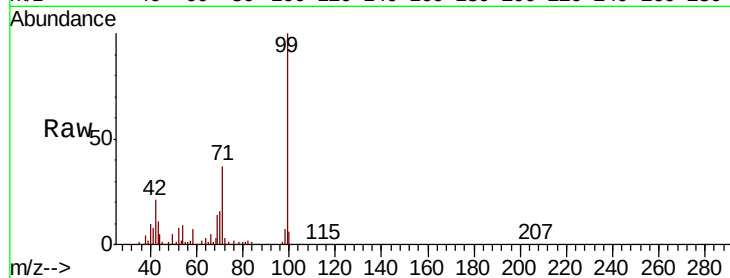
ClientSampleId :

CL-02-060920DL

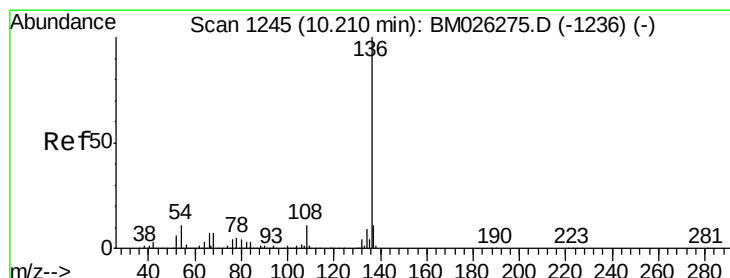
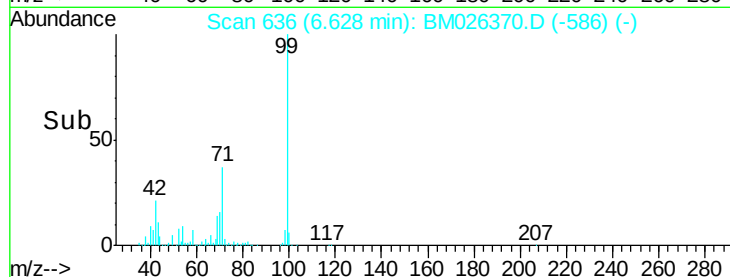
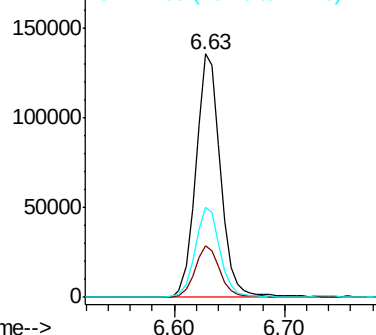
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 99    | Resp: | 211897 |
| Ion Ratio | Lower | Upper |        |
| 99        | 100   |       |        |
| 42        | 21.2  | 18.0  | 27.0   |
| 71        | 37.2  | 30.6  | 45.8   |

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Abundance Ion 99.00 (98.70 to 99.70): BM026370.D (-586) (-)



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.18 min Scan# 1240

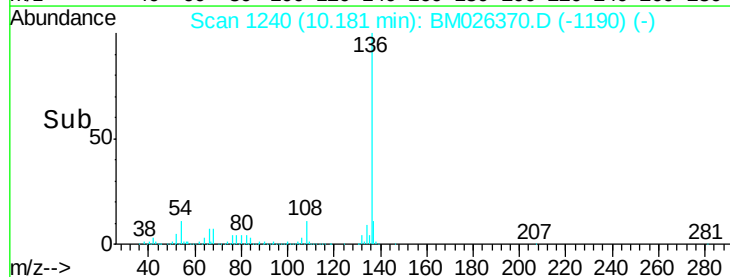
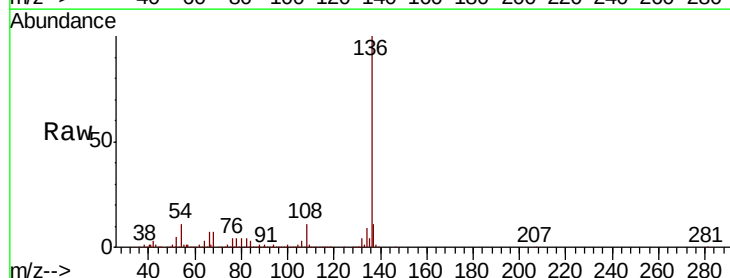
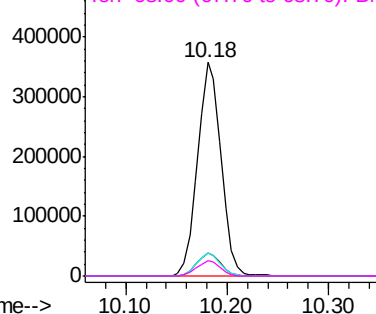
Delta R.T. -0.01 min

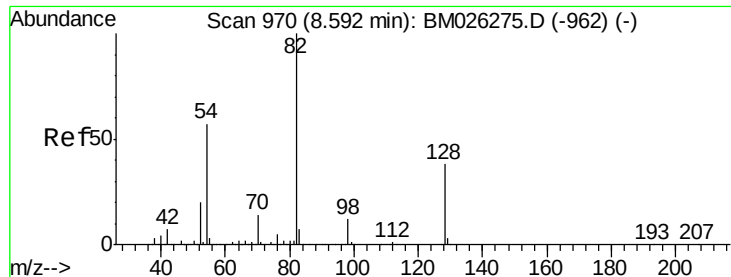
Lab File: BM026370.D

Acq: 12 Jun 2020 03:02

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 136   | Resp: | 574026 |
| Ion Ratio | Lower | Upper |        |
| 136       | 100   |       |        |
| 137       | 10.7  | 8.6   | 13.0   |
| 54        | 10.8  | 9.0   | 13.4   |
| 68        | 7.0   | 5.6   | 8.4    |

Abundance Ion 136.00 (135.70 to 136.70): BM026370.D (-1190) (-)





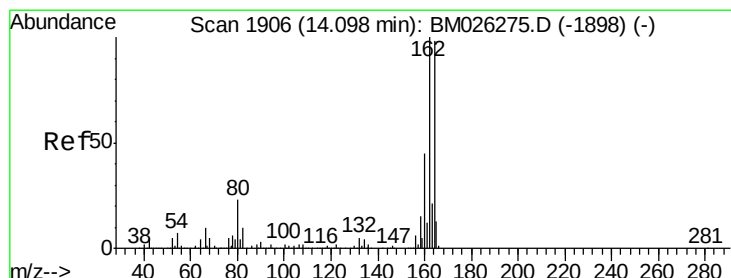
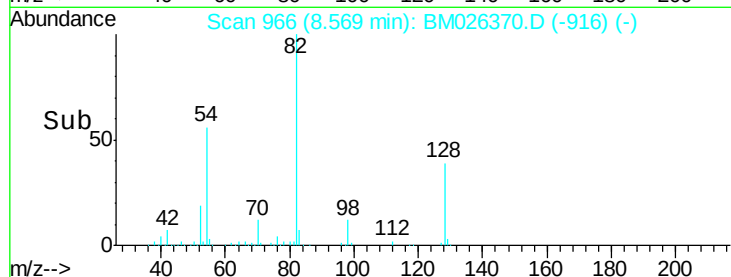
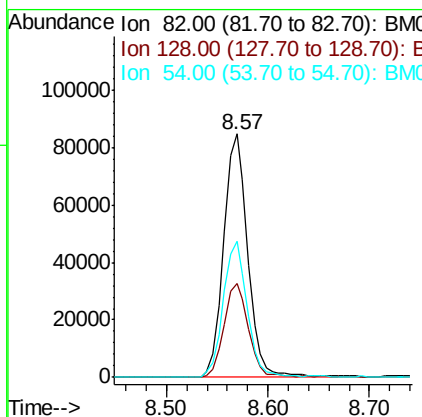
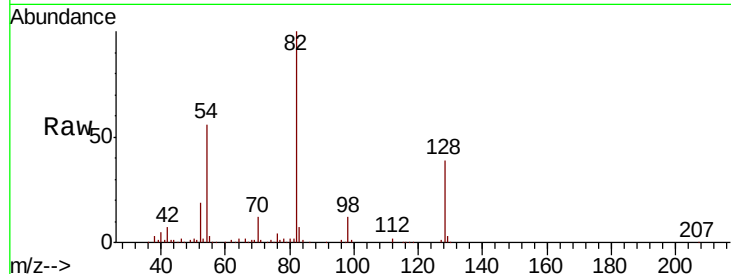
#23  
Nitrobenzene-d5  
Concen: 11.977 ng  
RT: 8.57 min Scan# 966  
Delta R.T. -0.01 min  
Lab File: BM026370.D  
Acq: 12 Jun 2020 03:02

Instrument :  
BNA\_M  
ClientSampleId :  
CL-02-060920DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 38.8  | 30.3  | 45.5  |
| 54      | 55.7  | 45.4  | 68.2  |

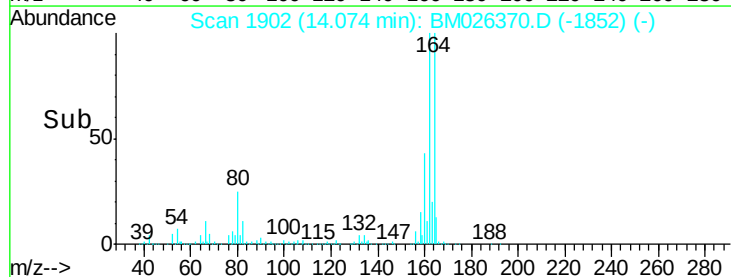
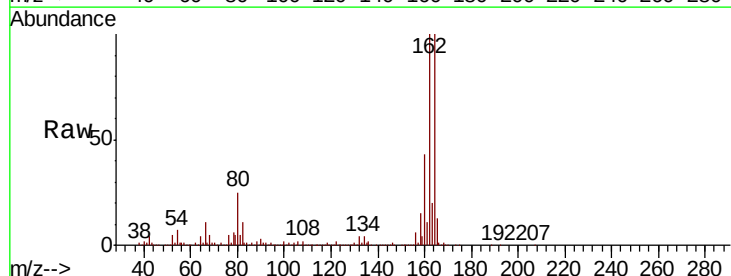
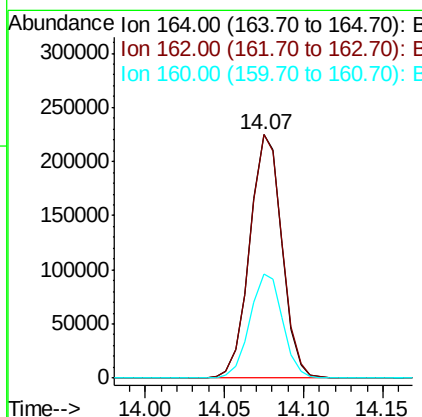
Manual Integrations  
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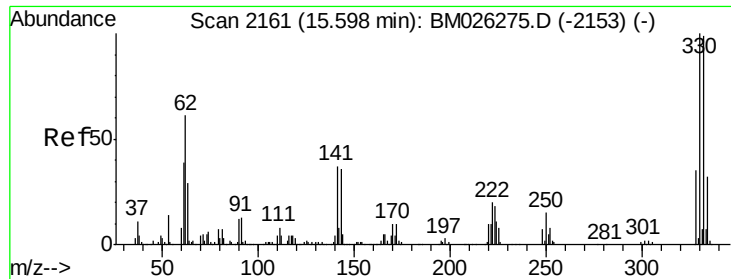
mohammad  
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#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.07 min Scan# 1902  
Delta R.T. -0.01 min  
Lab File: BM026370.D  
Acq: 12 Jun 2020 03:02

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 99.9  | 81.4  | 122.2 |
| 160     | 42.6  | 36.4  | 54.6  |





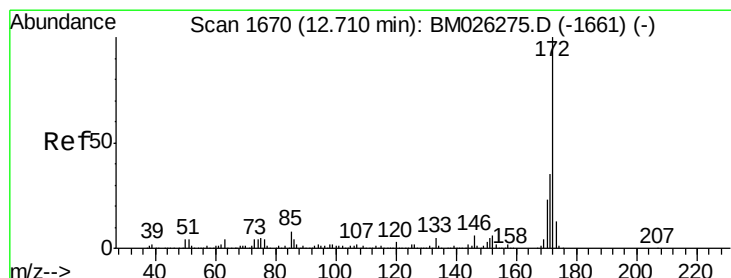
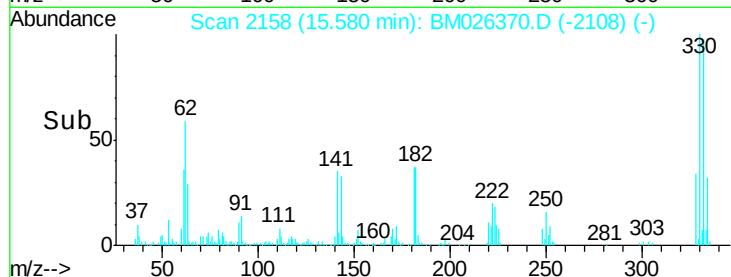
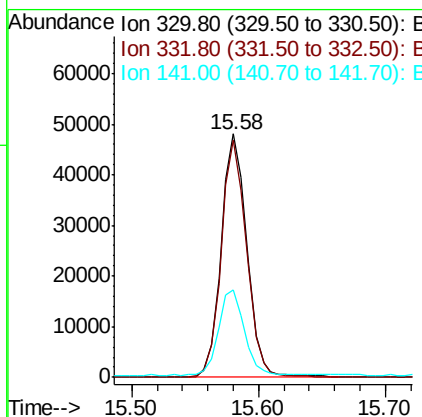
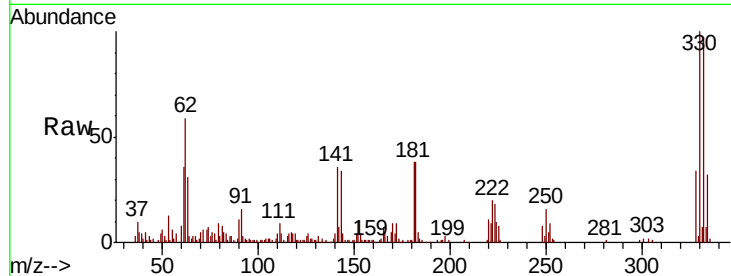
#42  
 2,4,6-Tribromophenol  
 Concen: 17.536 ng  
 RT: 15.58 min Scan# 2158  
 Delta R.T. -0.01 min  
 Lab File: BM026370.D  
 Acq: 12 Jun 2020 03:02

Instrument :  
 BNA\_M  
 ClientSampleId :  
 CL-02-060920DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 95.8  | 78.1  | 117.1 |
| 141     | 35.3  | 30.0  | 45.0  |

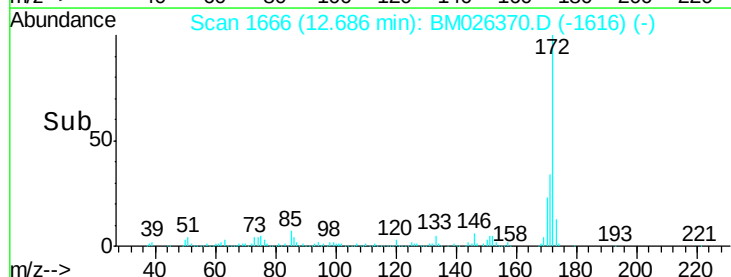
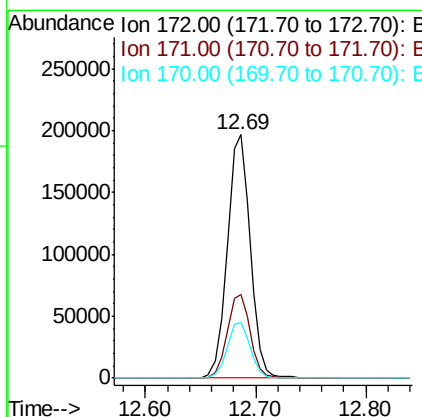
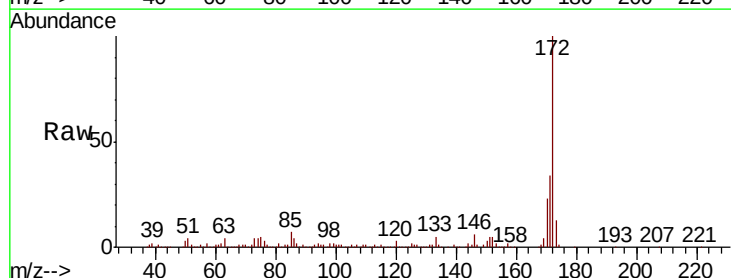
Manual Integrations  
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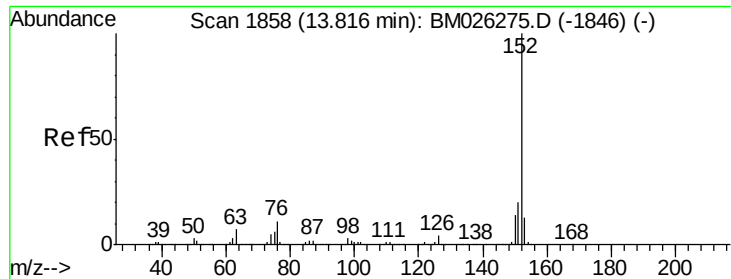
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#45  
 2-Fluorobiphenyl  
 Concen: 13.700 ng  
 RT: 12.69 min Scan# 1666  
 Delta R.T. -0.01 min  
 Lab File: BM026370.D  
 Acq: 12 Jun 2020 03:02

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 34.3  | 28.2  | 42.2  |
| 170     | 22.7  | 18.3  | 27.5  |





#49

Acenaphthylene

Concen: 2.786 ng

RT: 13.79 min Scan# 1854

Delta R.T. -0.01 min

Lab File: BM026370.D

Acq: 12 Jun 2020 03:02

Instrument :

BNA\_M

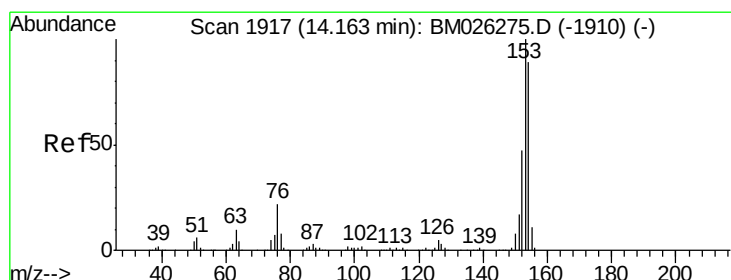
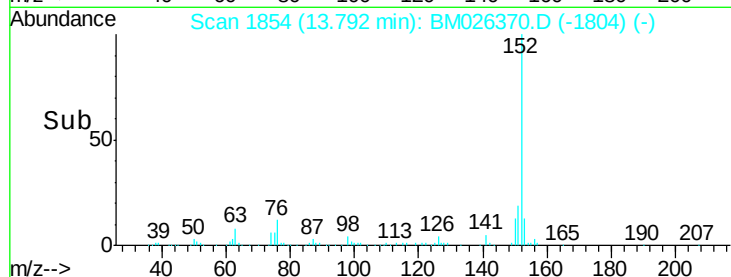
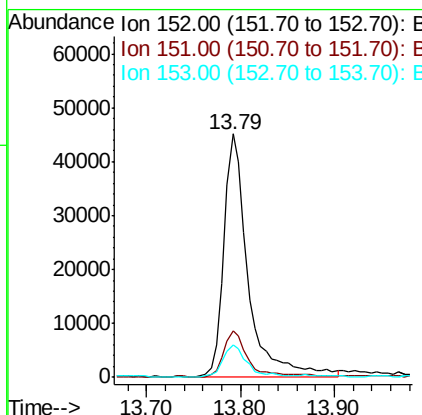
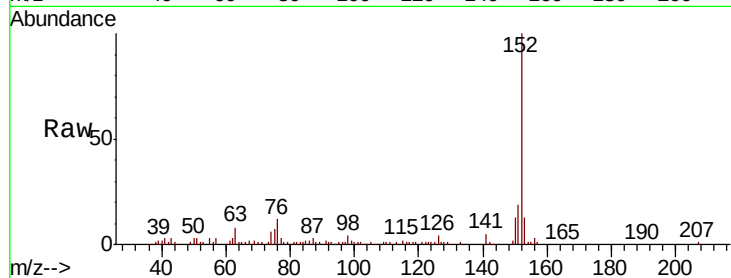
ClientSampleId :

CL-02-060920DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 152   | Resp: | 80629 |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 19.2  | 15.7  | 23.5  |
| 153       | 13.1  | 10.2  | 15.4  |

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#52

Acenaphthene

Concen: 2.895 ng

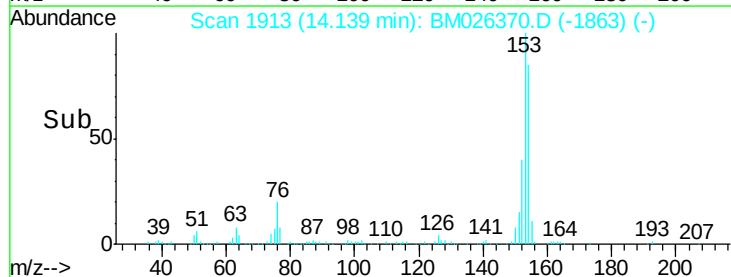
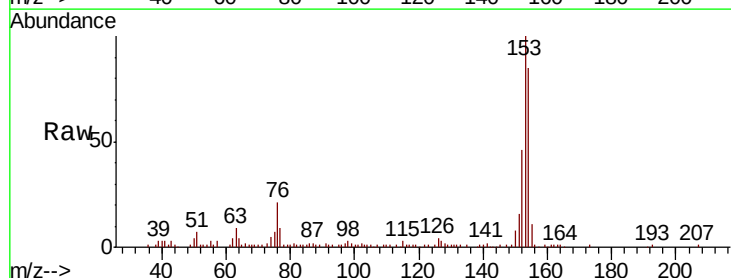
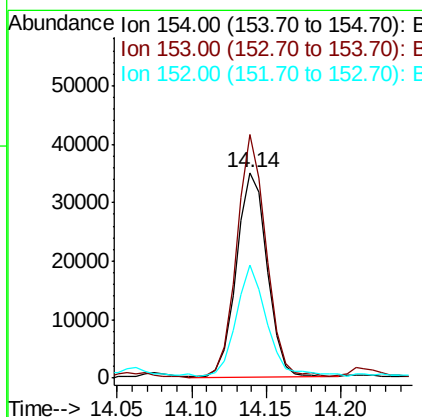
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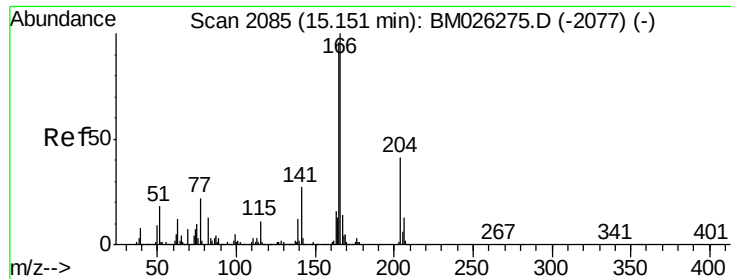
Delta R.T. -0.01 min

Lab File: BM026370.D

Acq: 12 Jun 2020 03:02

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 154   | Resp: | 50295 |
| Ion Ratio | Lower | Upper |       |
| 154       | 100   |       |       |
| 153       | 118.3 | 89.6  | 134.4 |
| 152       | 54.7  | 42.1  | 63.1  |





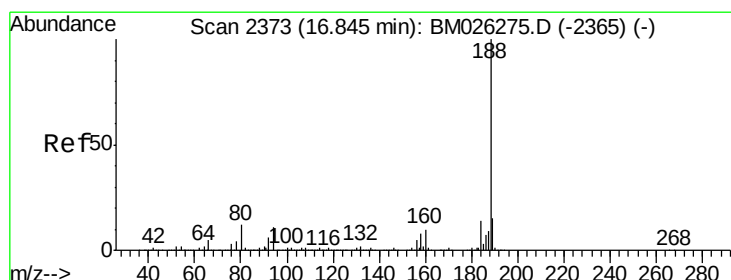
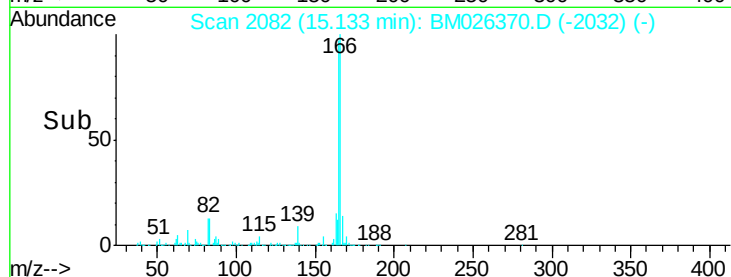
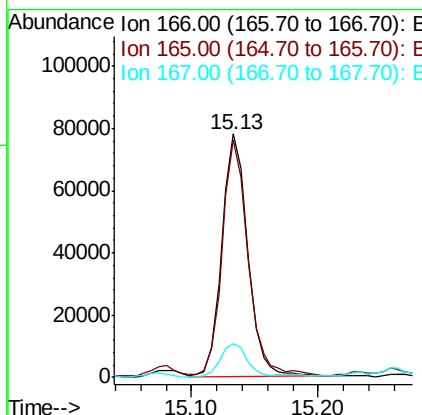
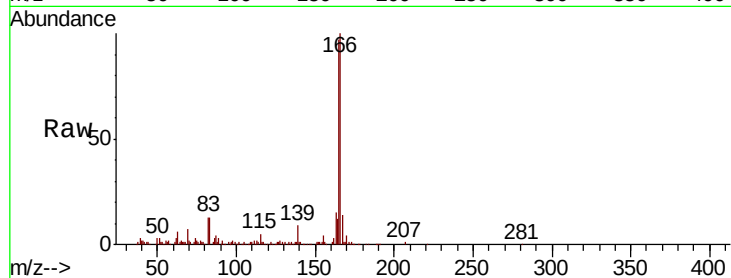
#58  
 Fluorene  
 Concen: 4.834 ng  
 RT: 15.13 min Scan# 2082  
 Delta R.T. -0.01 min  
 Lab File: BM026370.D  
 Acq: 12 Jun 2020 03:02

Instrument :  
 BNA\_M  
 ClientSampleId :  
 CL-02-060920DL

| Tot Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 166     | 100  |       | 109903 |       |       |
| 165     | 97.3 | 76.7  | 115.1  |       |       |
| 167     | 14.1 | 11.0  | 16.4   |       |       |

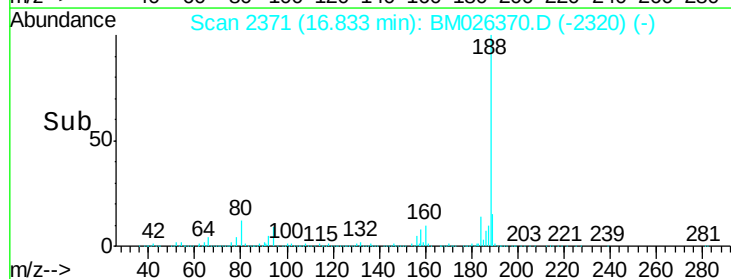
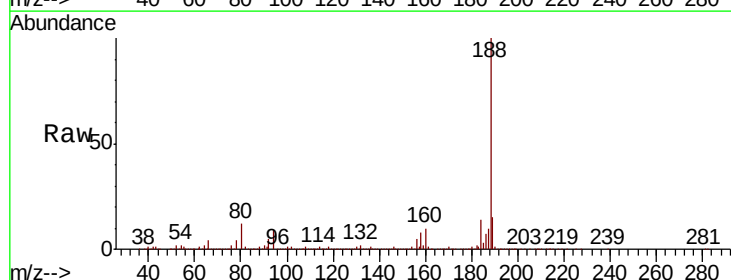
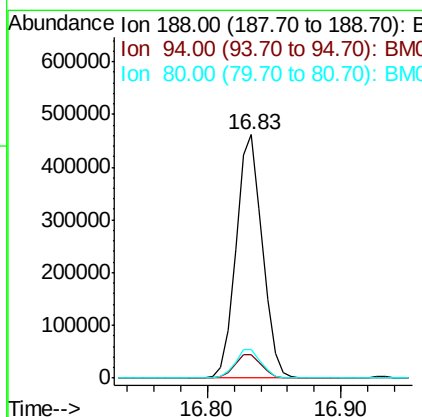
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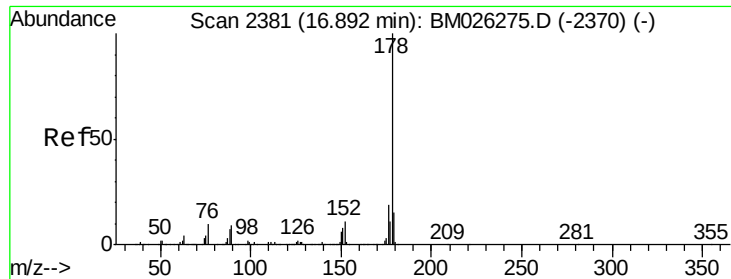


#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 16.83 min Scan# 2371  
 Delta R.T. -0.00 min  
 Lab File: BM026370.D  
 Acq: 12 Jun 2020 03:02

| Tgt Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 188     | 100  |       | 627734 |       |       |
| 94      | 9.4  | 8.6   | 12.8   |       |       |
| 80      | 11.9 | 9.7   | 14.5   |       |       |







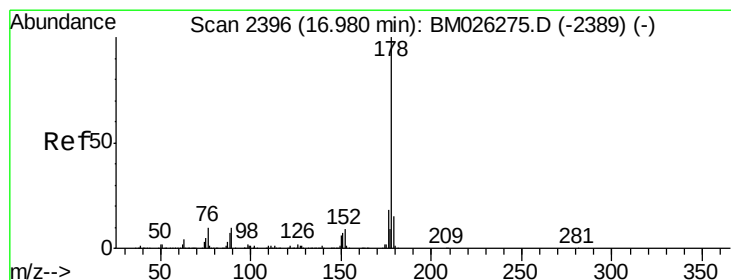
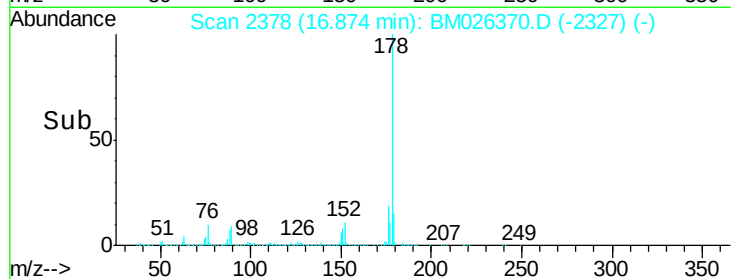
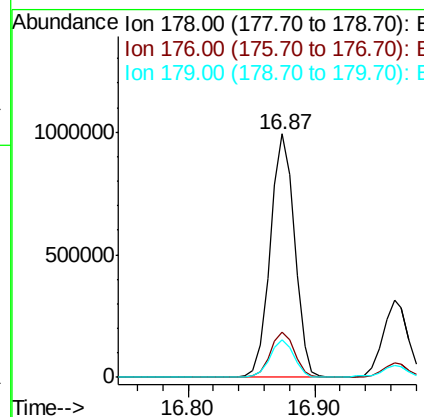
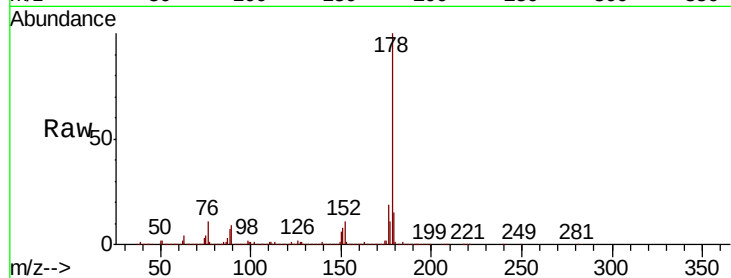
#71  
Phenanthrene  
Concen: 40.506 ng  
RT: 16.87 min Scan# 2378  
Delta R.T. -0.00 min  
Lab File: BM026370.D  
Acq: 12 Jun 2020 03:02

Instrument :  
BNA\_M  
ClientSampleId :  
CL-02-060920DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 18.8  | 14.9  | 22.3  |
| 179     | 15.2  | 12.0  | 18.0  |

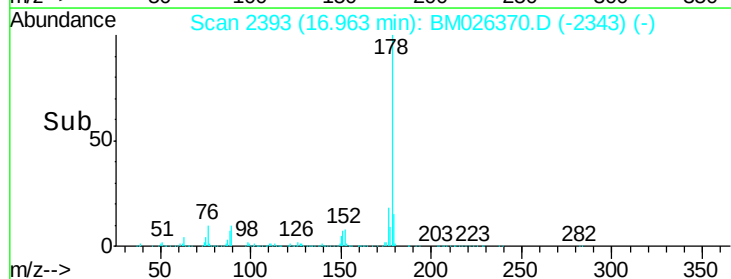
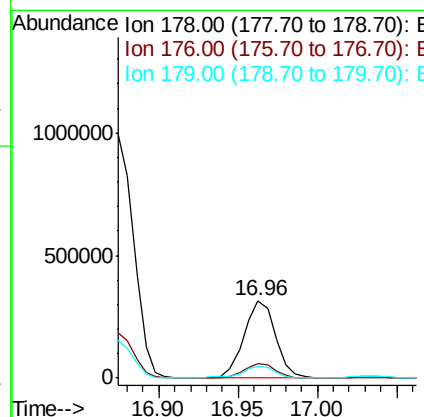
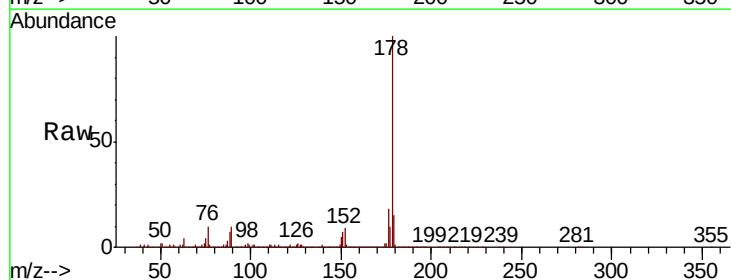
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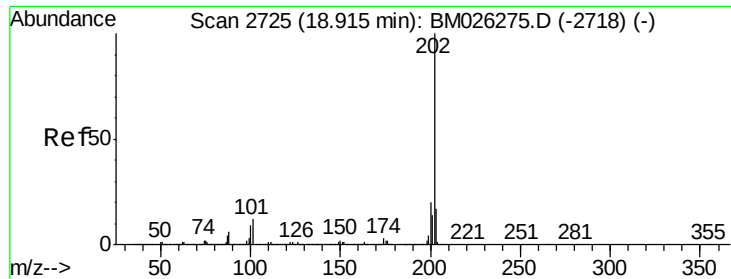
mohammad  
6/15/2020 8:43:42 AM



#72  
Anthracene  
Concen: 13.191 ng  
RT: 16.96 min Scan# 2393  
Delta R.T. -0.01 min  
Lab File: BM026370.D  
Acq: 12 Jun 2020 03:02

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 18.1  | 14.4  | 21.6  |
| 179     | 15.3  | 12.2  | 18.4  |





#75

Fluoranthene

Concen: 59.406 ng

RT: 18.90 min Scan# 2723

Delta R.T. -0.00 min

Lab File: BM026370.D

Acq: 12 Jun 2020 03:02

Instrument :

BNA\_M

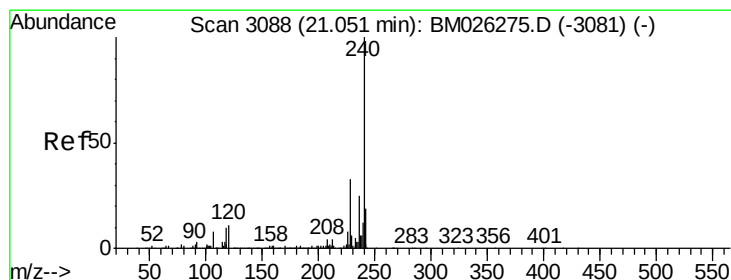
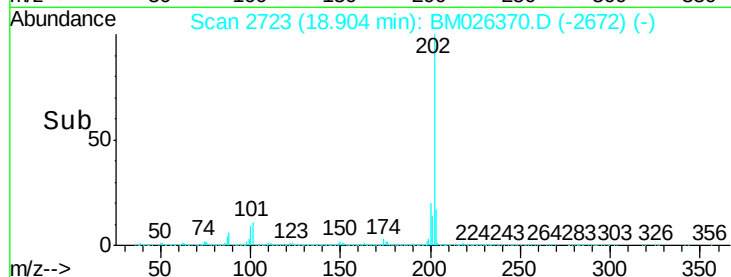
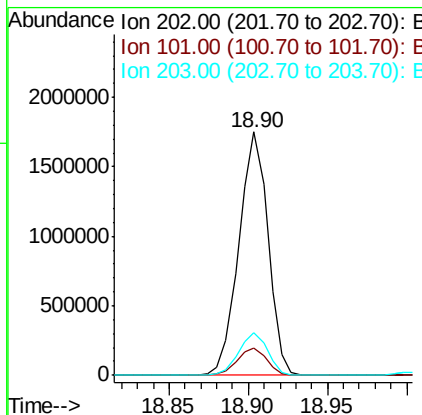
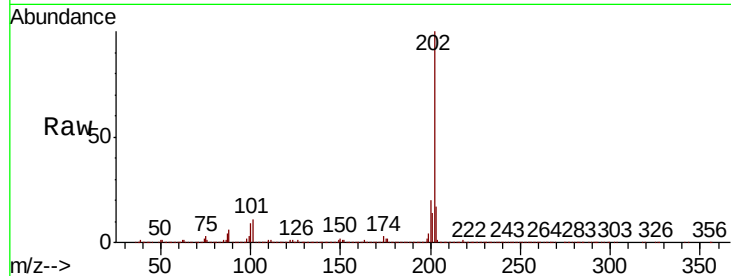
ClientSampleId :

CL-02-060920DL

|          |       |       |         |
|----------|-------|-------|---------|
| Tot Ion: | 202   | Resp: | 2226442 |
| Ion      | Ratio | Lower | Upper   |
| 202      | 100   |       |         |
| 101      | 11.5  | 0.0   | 31.6    |
| 203      | 17.4  | 0.0   | 37.4    |

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#76

Chrysene-d12

Concen: 20.000 ng

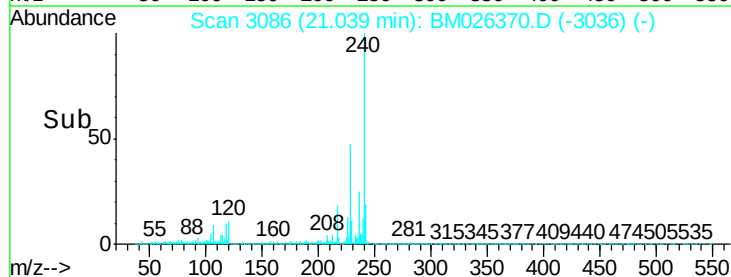
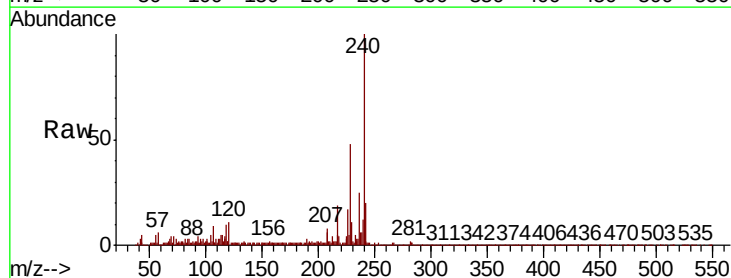
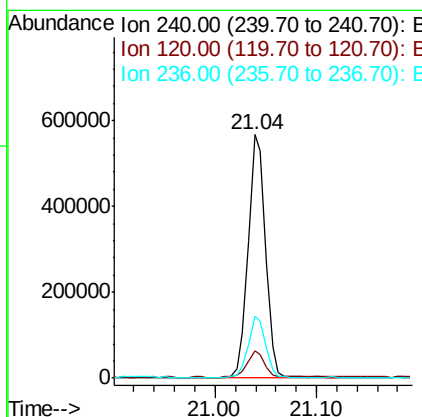
RT: 21.04 min Scan# 3086

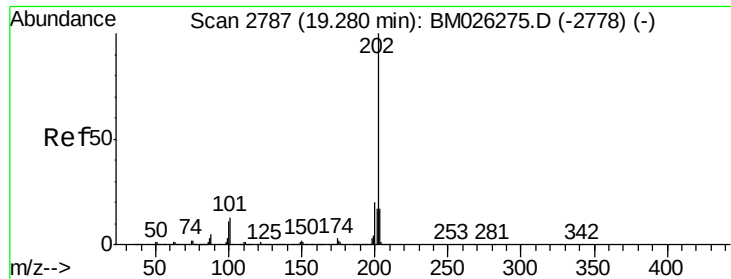
Delta R.T. -0.01 min

Lab File: BM026370.D

Acq: 12 Jun 2020 03:02

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 240   | Resp: | 671029 |
| Ion      | Ratio | Lower | Upper  |
| 240      | 100   |       |        |
| 120      | 11.2  | 8.9   | 13.3   |
| 236      | 25.3  | 19.7  | 29.5   |





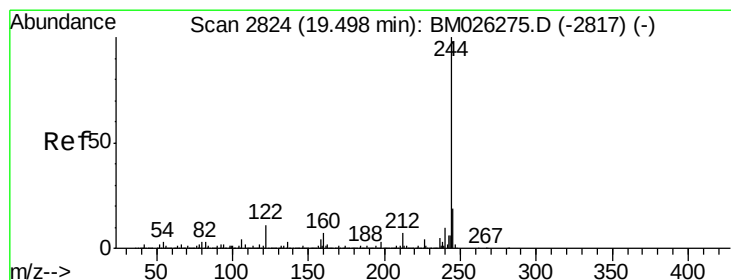
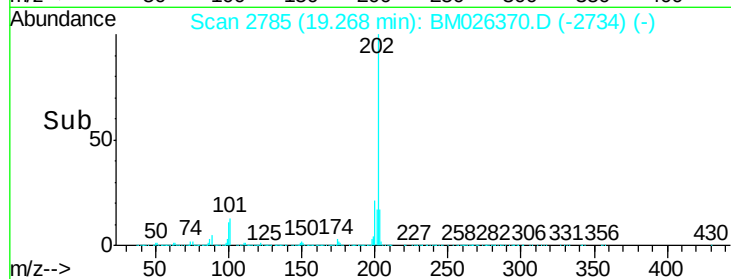
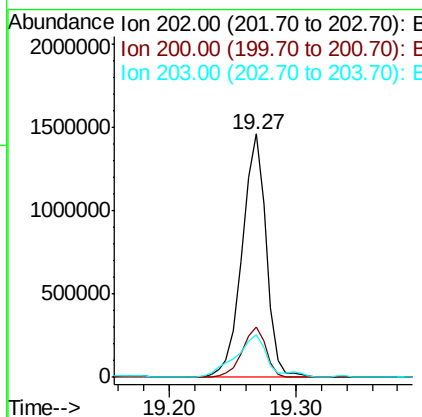
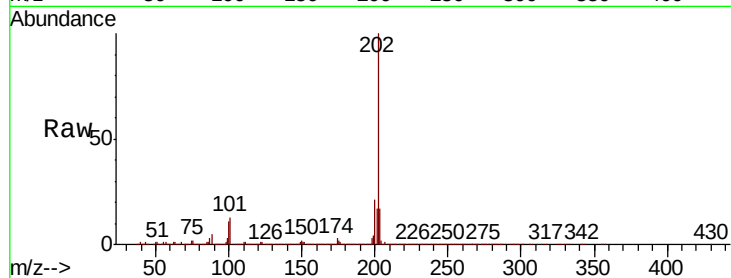
#78  
Pvrene  
Concen: 43.144 ng  
RT: 19.27 min Scan# 2785  
Delta R.T. -0.00 min  
Lab File: BM026370.D  
Acq: 12 Jun 2020 03:02

Instrument :  
BNA\_M  
ClientSampleId :  
CL-02-060920DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 20.5  | 16.2  | 24.4  |
| 203     | 17.3  | 13.8  | 20.8  |

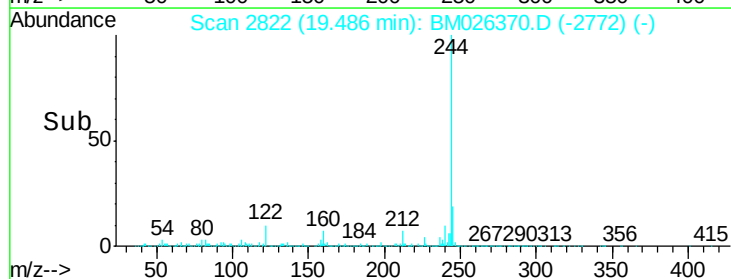
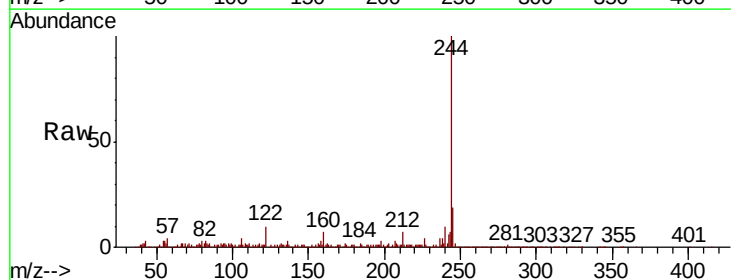
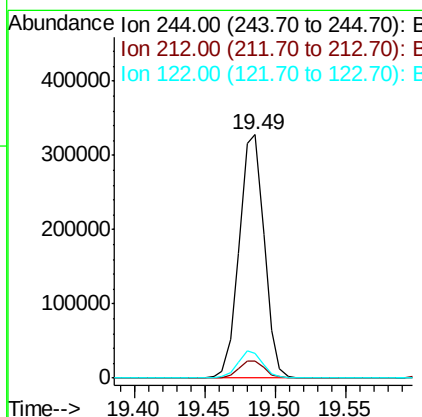
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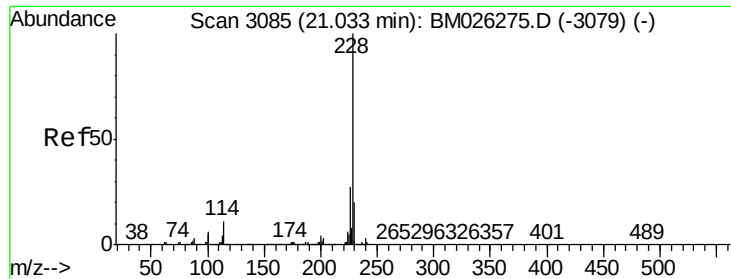
mohammad  
6/15/2020 8:43:42 AM



#79  
Terphenyl-d14  
Concen: 11.737 ng  
RT: 19.49 min Scan# 2822  
Delta R.T. -0.01 min  
Lab File: BM026370.D  
Acq: 12 Jun 2020 03:02

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 7.2   | 5.7   | 8.5   |
| 122     | 10.0  | 9.1   | 13.7  |





#81

Benzo(a)anthracene

Concen: 27.463 ng

RT: 21.03 min Scan# 3084

Delta R.T. 0.00 min

Lab File: BM026370.D

Acq: 12 Jun 2020 03:02

Instrument :

BNA\_M

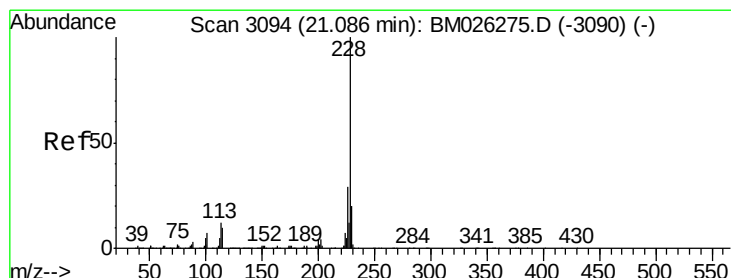
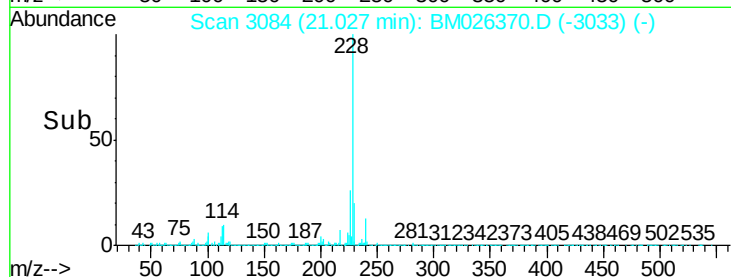
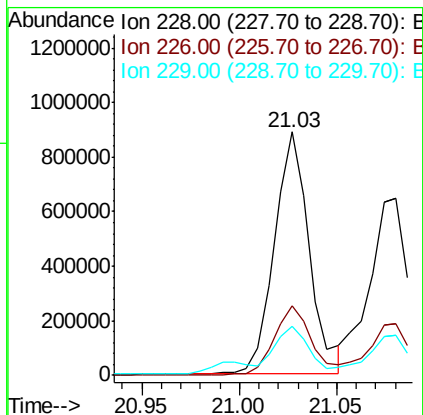
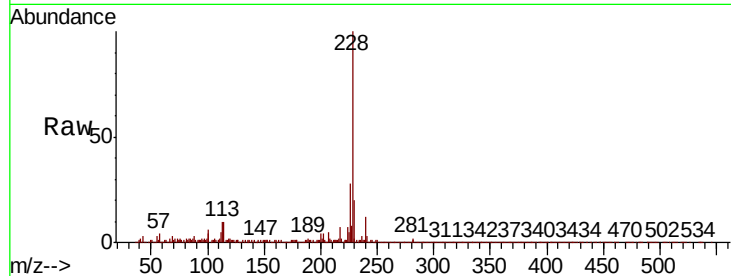
ClientSampleId :

CL-02-060920DL

|          |       |       |         |
|----------|-------|-------|---------|
| Tot Ion: | 228   | Resp: | 1106145 |
| Ion      | Ratio | Lower | Upper   |
| 228      | 100   |       |         |
| 226      | 28.5  | 21.7  | 32.5    |
| 229      | 20.2  | 15.9  | 23.9    |

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#83

Chrysene

Concen: 22.909 ng

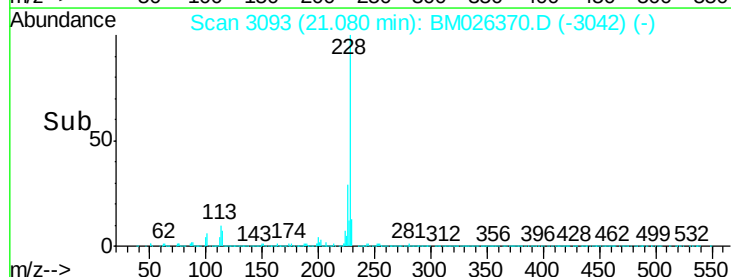
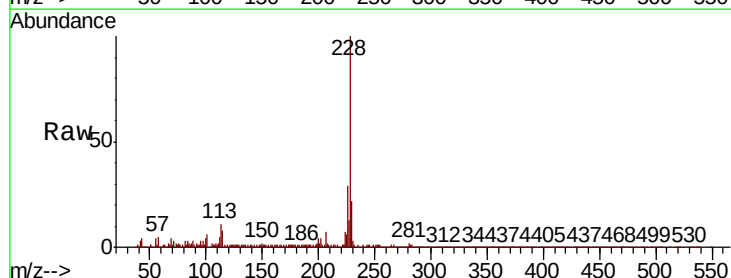
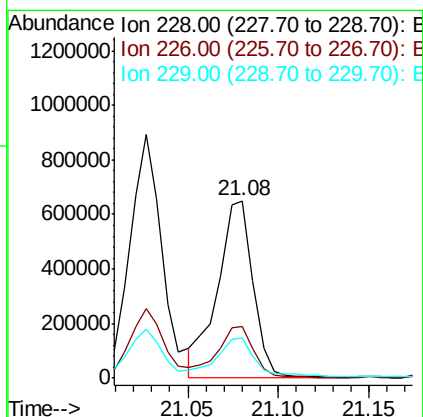
RT: 21.08 min Scan# 3093

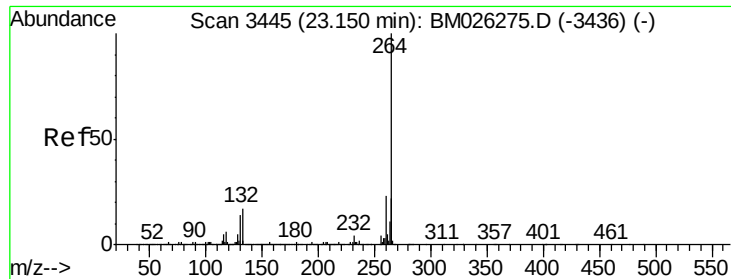
Delta R.T. -0.00 min

Lab File: BM026370.D

Acq: 12 Jun 2020 03:02

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 228   | Resp: | 879319 |
| Ion      | Ratio | Lower | Upper  |
| 228      | 100   |       |        |
| 226      | 29.4  | 23.5  | 35.3   |
| 229      | 22.5  | 15.8  | 23.6   |





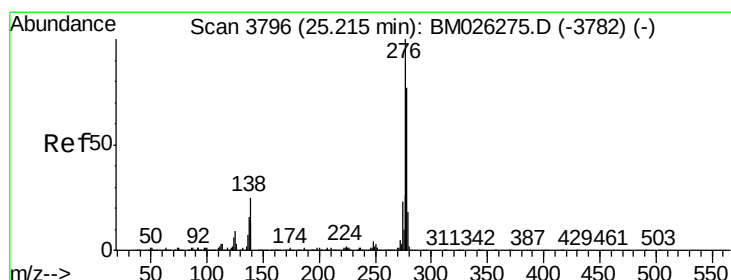
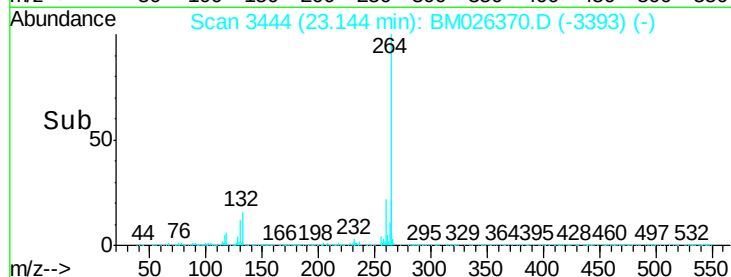
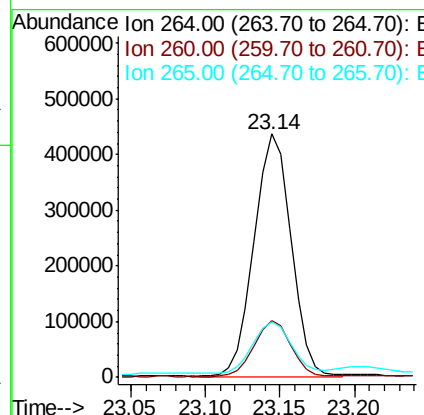
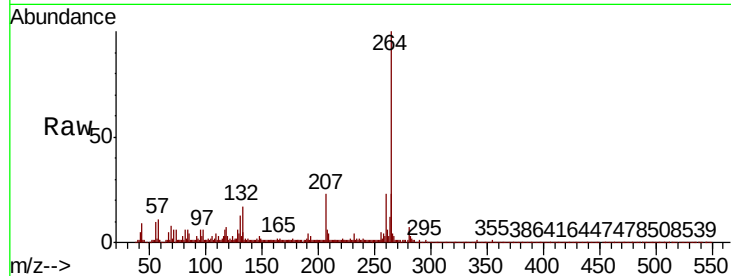
#86  
Pervlene-d12  
Concen: 20.000 ng  
RT: 23.14 min Scan# 3444  
Delta R.T. -0.00 min  
Lab File: BM026370.D  
Acq: 12 Jun 2020 03:02

Instrument :  
BNA\_M  
ClientSampleId :  
CL-02-060920DL

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 264   | Resp: | 746439 |
| Ion Ratio | Lower | Upper |        |
| 264       | 100   |       |        |
| 260       | 23.1  | 18.6  | 28.0   |
| 265       | 22.7  | 18.2  | 27.2   |

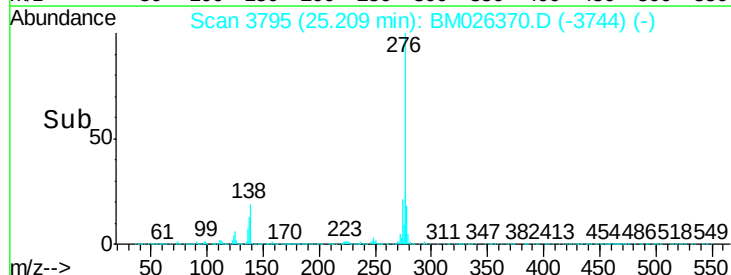
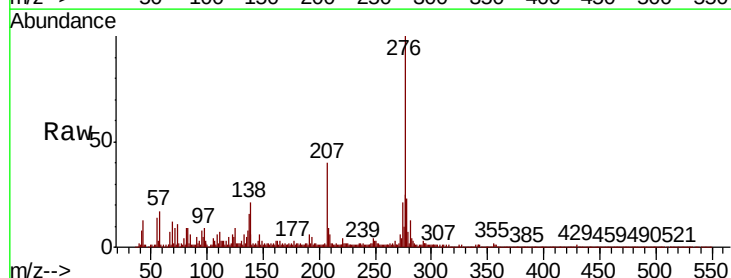
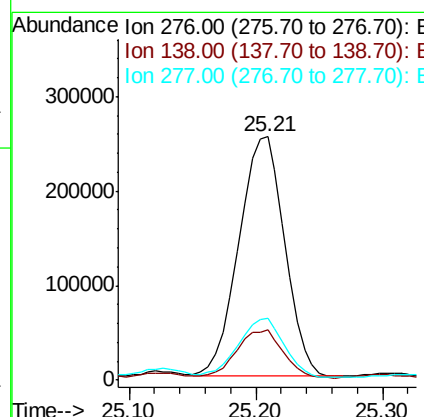
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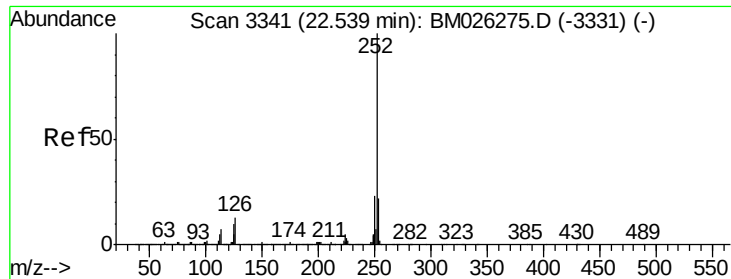
mohammad  
6/15/2020 8:43:42 AM



#87  
Indeno(1,2,3-cd)pyrene  
Concen: 14.755 ng  
RT: 25.21 min Scan# 3795  
Delta R.T. -0.00 min  
Lab File: BM026370.D  
Acq: 12 Jun 2020 03:02

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 276   | Resp: | 637100 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 138       | 20.3  | 19.8  | 29.8   |
| 277       | 25.2  | 20.2  | 30.2   |





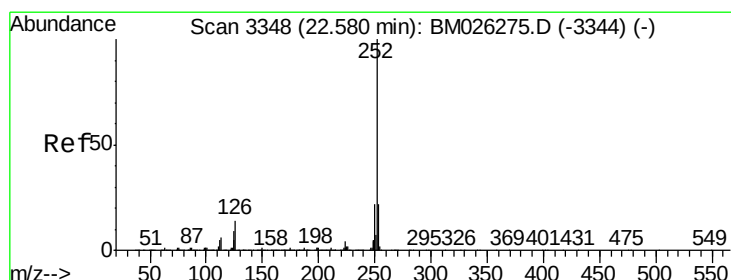
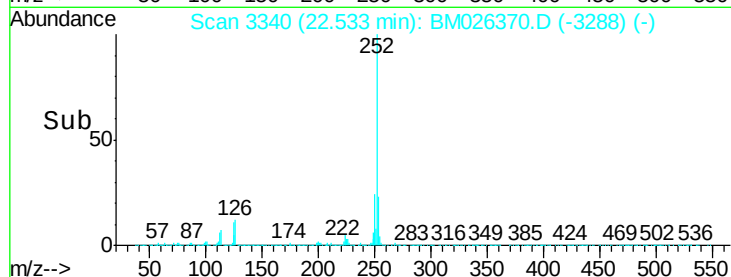
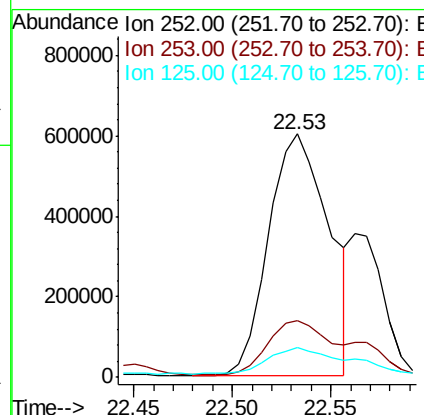
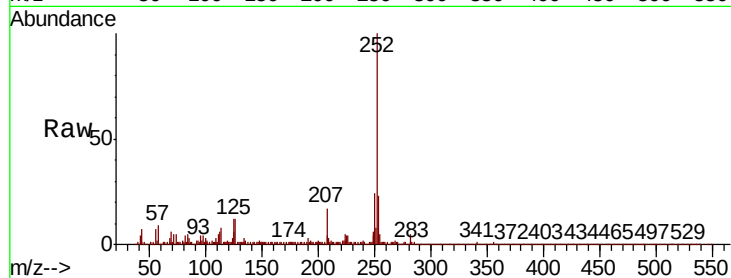
#88  
Benzo(b)fluoranthene  
Concen: 28.342 ng m  
RT: 22.53 min Scan# 3340  
Delta R.T. 0.01 min  
Lab File: BM026370.D  
Acq: 12 Jun 2020 03:02

Instrument :  
BNA\_M  
ClientSampleId :  
CL-02-060920DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.5  | 17.6  | 26.4  |
| 125     | 12.0  | 7.9   | 11.9  |

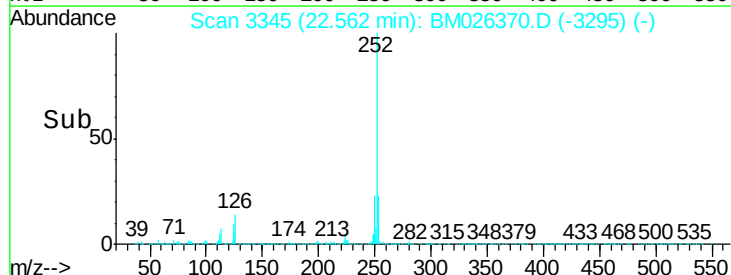
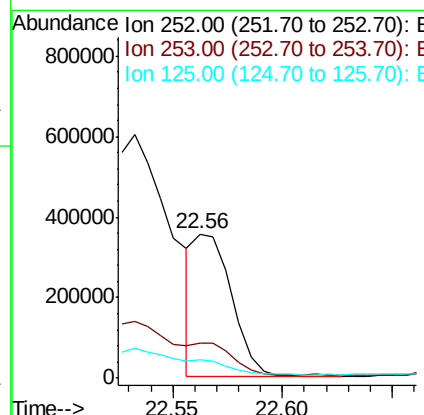
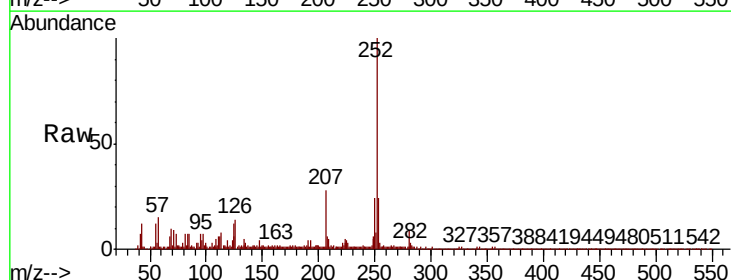
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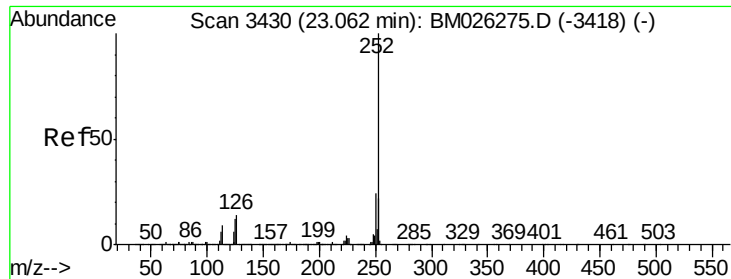
mohammad  
6/15/2020 8:43:42 AM



#89  
Benzo(k)fluoranthene  
Concen: 9.428 ng m  
RT: 22.56 min Scan# 3345  
Delta R.T. -0.01 min  
Lab File: BM026370.D  
Acq: 12 Jun 2020 03:02

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.3  | 17.3  | 25.9  |
| 125     | 12.3  | 7.8   | 11.6  |





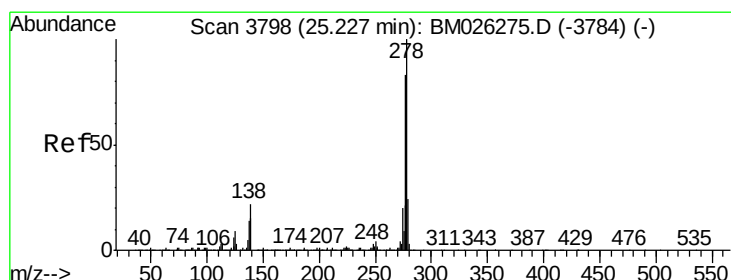
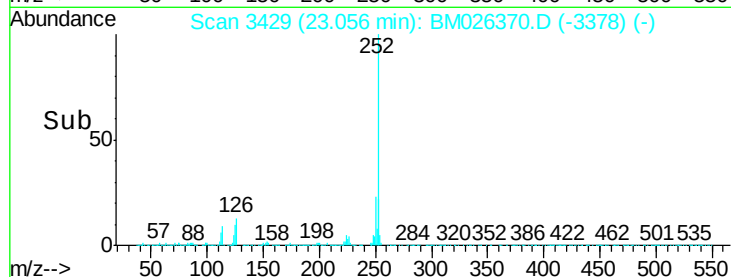
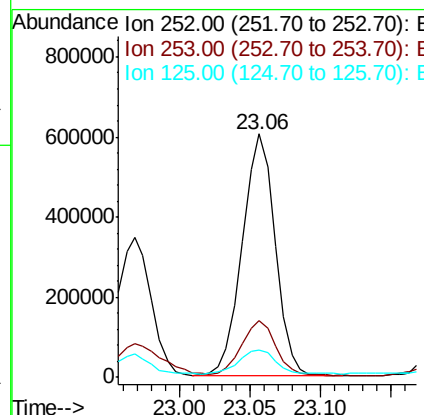
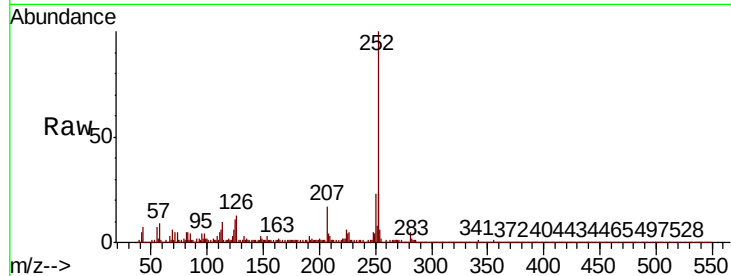
#90  
Benzo(a)pyrene  
Concen: 24.725 ng  
RT: 23.06 min Scan# 3429  
Delta R.T. -0.00 min  
Lab File: BM026370.D  
Acq: 12 Jun 2020 03:02

Instrument :  
BNA\_M  
ClientSampleId :  
CL-02-060920DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.5  | 17.5  | 26.3  |
| 125     | 11.3  | 9.4   | 14.0  |

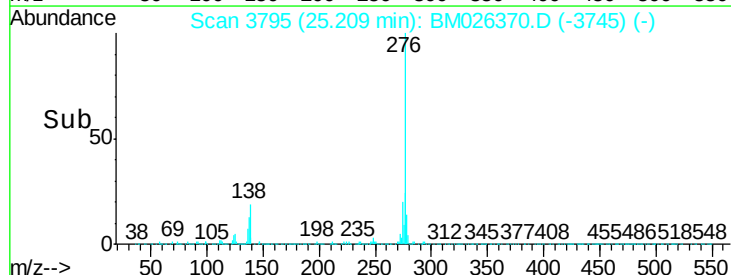
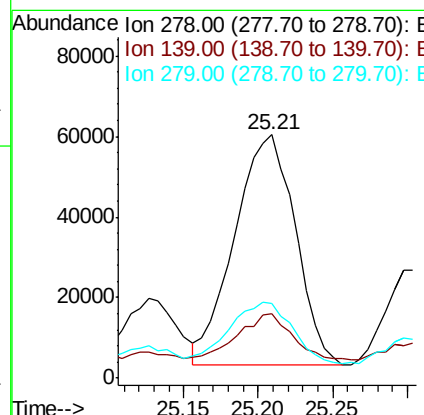
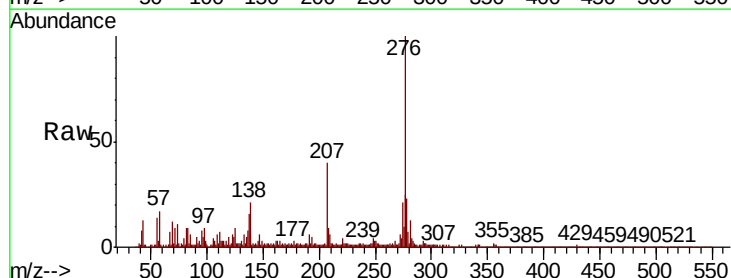
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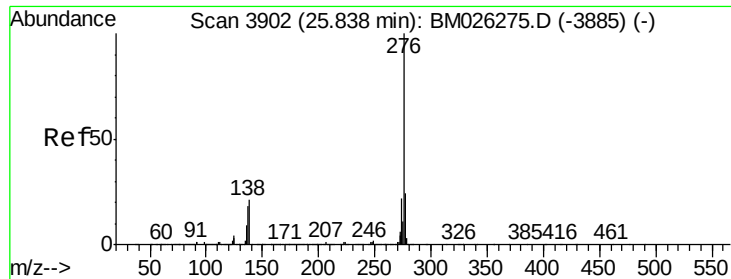
mohammad  
6/15/2020 8:43:42 AM



#91  
Dibenzo(a,h)anthracene  
Concen: 4.511 ng  
RT: 25.21 min Scan# 3795  
Delta R.T. -0.01 min  
Lab File: BM026370.D  
Acq: 12 Jun 2020 03:02

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 26.4  | 11.9  | 17.9# |
| 279     | 30.6  | 19.0  | 28.4# |





#92  
 Benzo(a,h,i)perylene  
 Concen: 18.039 ng  
 RT: 25.83 min Scan# 3901  
 Delta R.T. 0.01 min  
 Lab File: BM026370.D  
 Acq: 12 Jun 2020 03:02

Instrument :  
 BNA\_M  
 ClientSampleId :  
 CL-02-060920DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 24.5  | 19.3  | 28.9  |
| 138     | 21.9  | 16.5  | 24.7  |

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