

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM041621\  
 Data File : BM029520.D  
 Acq On : 16 Apr 2021 14:04  
 Operator : CG/JU  
 Sample : M1947-02  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 FS-SB19B(19-20)

Manual Integrations  
 APPROVED

mohammad  
 4/19/2021 11:46:17 AM

Quant Time: Apr 16 23:18:34 2021  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\8270-BM040121.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Apr 16 11:56:50 2021  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|--------|------|----------|--------|-------|----------|
| -----                       |        |      |          |        |       |          |
| Internal Standards          |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.675  | 152  | 83092    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8          | 10.451 | 136  | 329536   | 20.00  | ng    | 0.00     |
| 39) Acenaphthene-d10        | 14.310 | 164  | 179981   | 20.00  | ng    | 0.00     |
| 64) Phenanthrene-d10        | 17.051 | 188  | 356990   | 20.00  | ng    | 0.00     |
| 76) Chrysene-d12            | 21.233 | 240  | 356510   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12            | 23.438 | 264  | 367487   | 20.00  | ng    | 0.00     |
|                             |        |      |          |        |       |          |
| System Monitoring Compounds |        |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.269  | 112  | 507797   | 100.90 | ng    | 0.00     |
| 7) Phenol-d6                | 6.845  | 99   | 674770   | 94.97  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 8.822  | 82   | 487206   | 67.78  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 15.804 | 330  | 184614   | 102.62 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 12.933 | 172  | 847238   | 65.58  | ng    | 0.00     |
| 79) Terphenyl-d14           | 19.686 | 244  | 1131849  | 60.30  | ng    | 0.00     |
|                             |        |      |          |        |       |          |
| Target Compounds            |        |      |          |        |       | Qvalue   |
| 49) Acenaphthylene          | 14.033 | 152  | 61770    | 3.67   | ng    | 99       |
| 50) Dimethylphthalate       | 13.768 | 163  | 63630    | 4.90   | ng    | 98       |
| 71) Phenanthrene            | 17.098 | 178  | 180871   | 8.76   | ng    | 99       |
| 72) Anthracene              | 17.186 | 178  | 110991   | 5.44   | ng    | 99       |
| 75) Fluoranthene            | 19.115 | 202  | 982786   | 42.73  | ng    | 99       |
| 78) Pyrene                  | 19.474 | 202  | 1034392  | 41.75  | ng    | 100      |
| 81) Benzo(a)anthracene      | 21.215 | 228  | 504835   | 21.22  | ng    | 95       |
| 83) Chrysene                | 21.268 | 228  | 412038   | 17.69  | ng    | 97       |
| 87) Indeno(1,2,3-cd)pyrene  | 25.656 | 276  | 390998   | 14.43  | ng    | 97       |
| 88) Benzo(b)fluoranthene    | 22.780 | 252  | 702475m  | 29.11  | ng    |          |
| 89) Benzo(k)fluoranthene    | 22.821 | 252  | 224687m  | 9.74   | ng    |          |
| 90) Benzo(a)pyrene          | 23.344 | 252  | 569162   | 25.80  | ng    | 96       |
| 91) Dibenzo(a,h)anthracene  | 25.662 | 278  | 86947m   | 3.74   | ng    |          |
| 92) Benzo(g,h,i)perylene    | 26.332 | 276  | 359935   | 16.05  | ng    | 95       |
| -----                       |        |      |          |        |       |          |

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

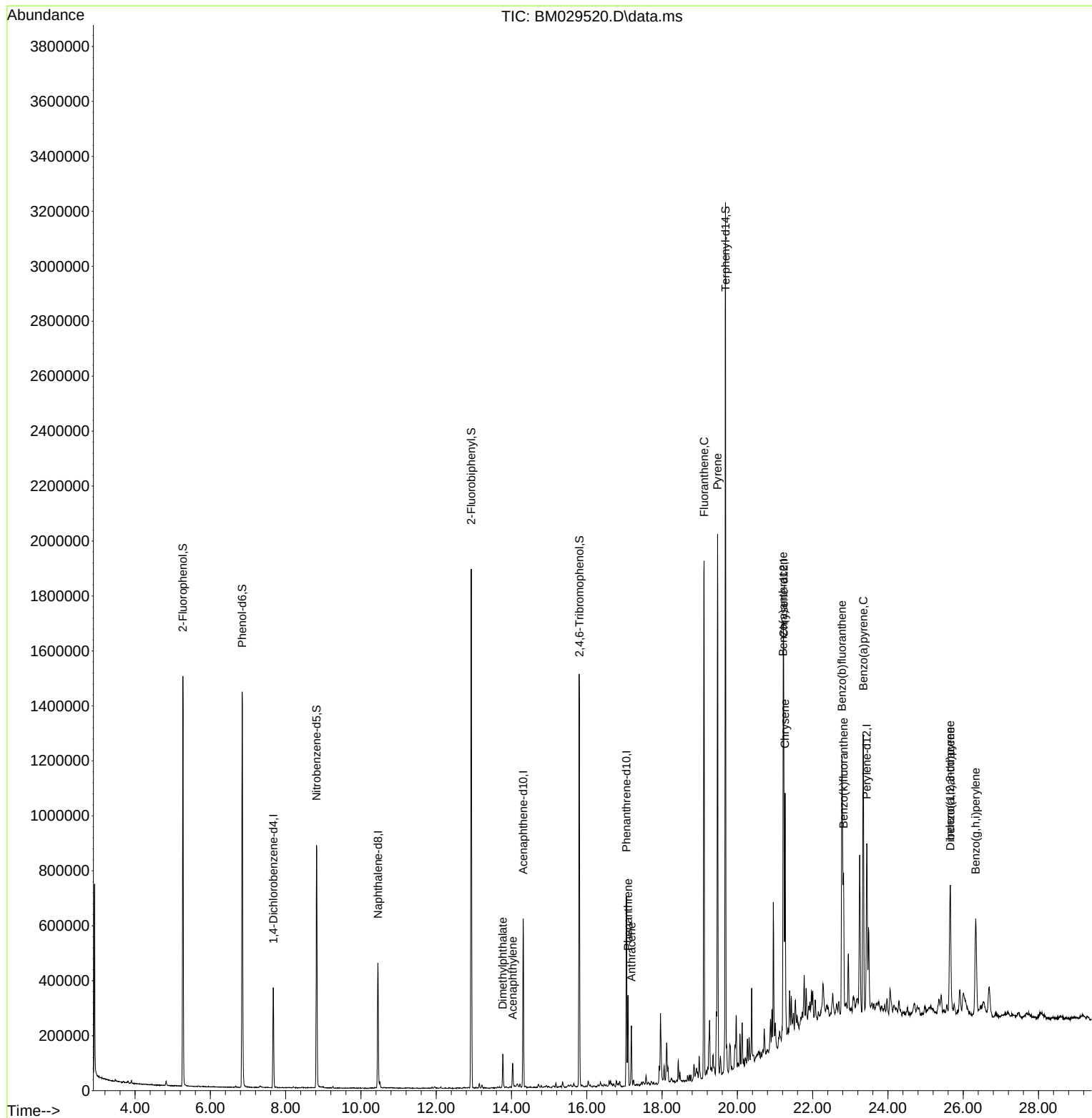
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM041621\  
Data File : BM029520.D  
Acq On : 16 Apr 2021 14:04  
Operator : CG/JU  
Sample : M1947-02  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

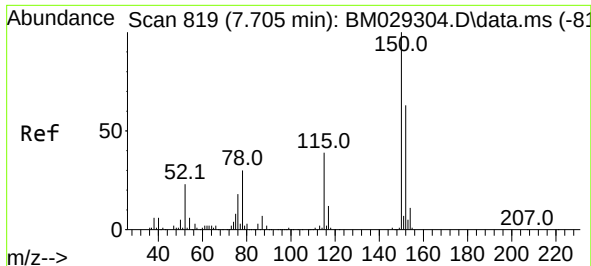
Instrument :  
BNA\_M  
ClientSampleId :  
FS-SB19B(19-20)

Manual Integrations  
APPROVED

mohammad  
4/19/2021 11:46:17 AM

Quant Time: Apr 16 23:18:34 2021  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\8270-BM040121.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Apr 16 11:56:50 2021  
Response via : Initial Calibration





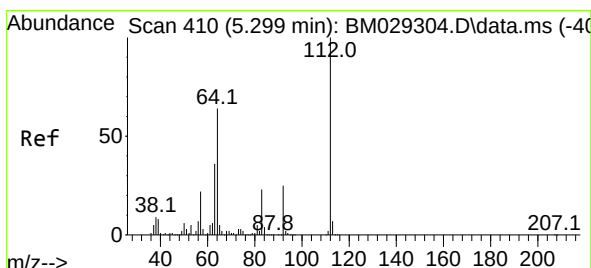
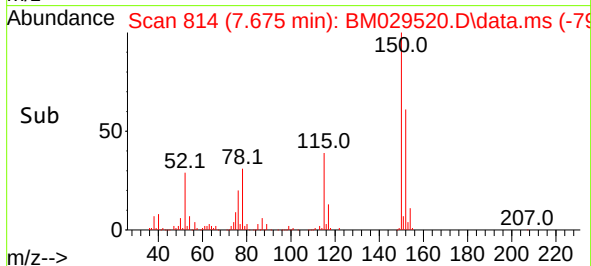
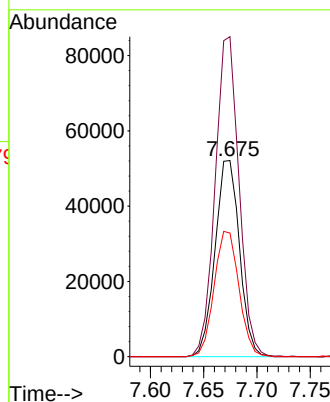
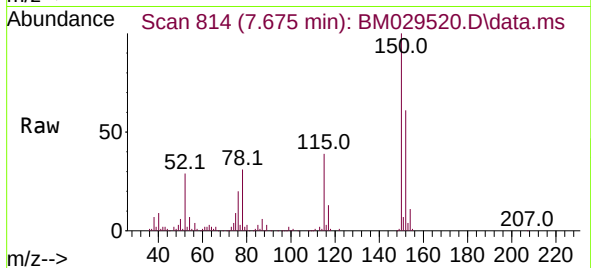
#1  
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 7.675 min Scan# 814  
Delta R.T. -0.000 min  
Lab File: BM029520.D  
Acq: 16 Apr 2021 14:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 163.2 | 124.3 | 186.5 |
| 115     | 63.1  | 46.4  | 69.6  |

Instrument :  
BNA\_M  
ClientSampleId :  
FS-SB19B(19-20)

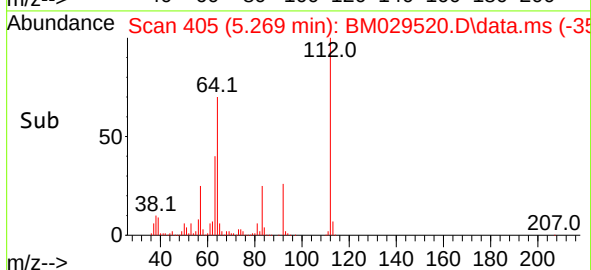
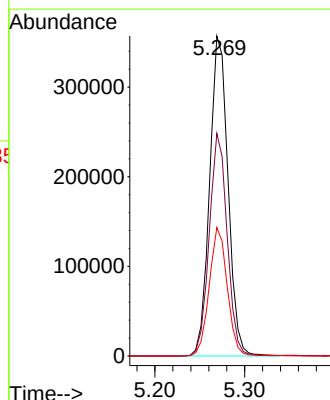
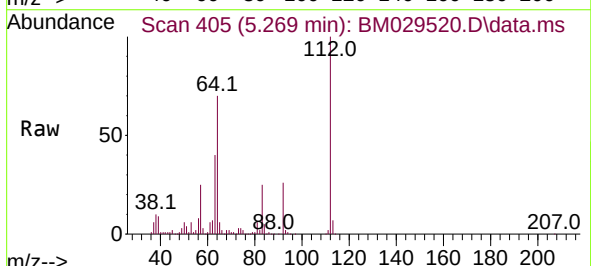
Manual Integrations  
APPROVED

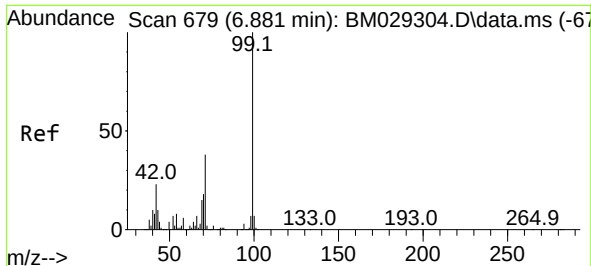
mohammad  
4/19/2021 11:46:17 AM



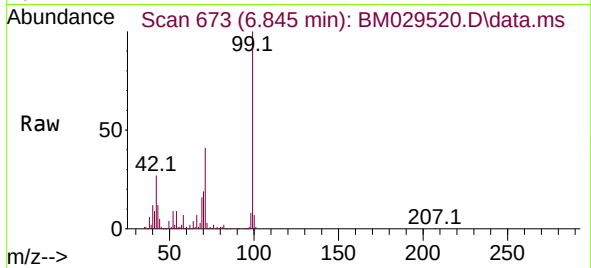
#5  
2-Fluorophenol  
Concen: 100.90 ng  
RT: 5.269 min Scan# 405  
Delta R.T. -0.000 min  
Lab File: BM029520.D  
Acq: 16 Apr 2021 14:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 69.5  | 51.6  | 77.4  |
| 63      | 40.1  | 29.0  | 43.4  |

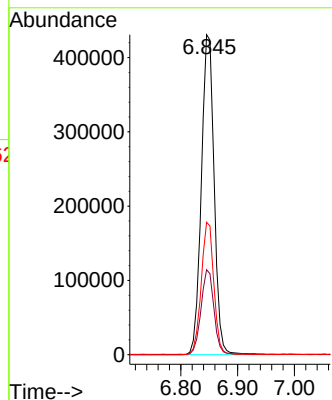




#7  
Phenol-d6  
Concen: 94.97 ng  
RT: 6.845 min Scan# 673  
Delta R.T. -0.006 min  
Lab File: BM029520.D  
Acq: 16 Apr 2021 14:04



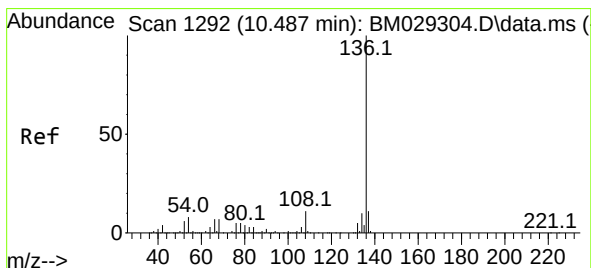
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 99      | 100   |       |       |
| 42      | 26.5  | 18.5  | 27.7  |
| 71      | 41.4  | 31.8  | 47.6  |



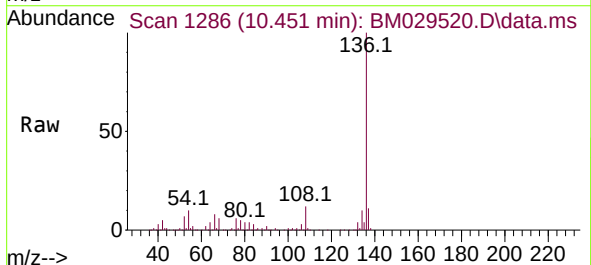
Instrument :  
BNA\_M  
ClientSampleId :  
FS-SB19B(19-20)

Manual Integrations  
APPROVED

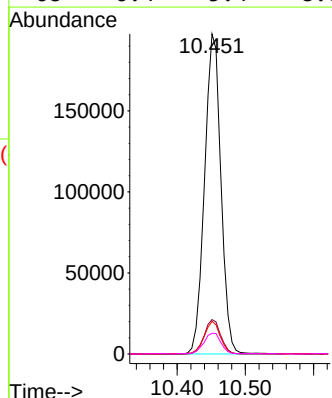
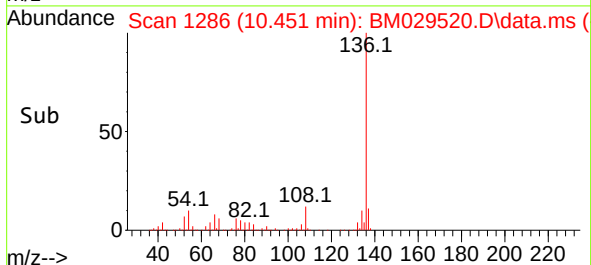
mohammad  
4/19/2021 11:46:17 AM

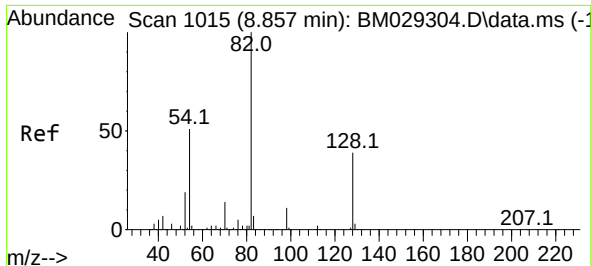


#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 10.451 min Scan# 1286  
Delta R.T. -0.006 min  
Lab File: BM029520.D  
Acq: 16 Apr 2021 14:04



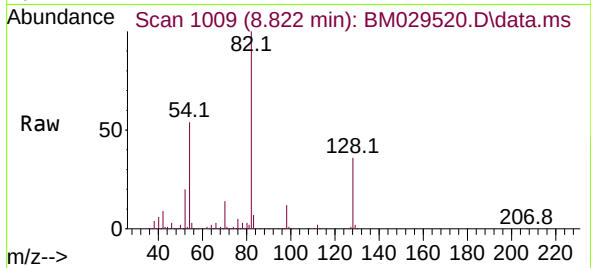
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 136     | 100   |       |       |
| 137     | 10.7  | 9.3   | 13.9  |
| 54      | 10.2  | 6.9   | 10.3  |
| 68      | 6.4   | 5.4   | 8.0   |





#23  
Nitrobenzene-d5  
Concen: 67.78 ng  
RT: 8.822 min Scan# 1009  
Delta R.T. -0.006 min  
Lab File: BM029520.D  
Acq: 16 Apr 2021 14:04

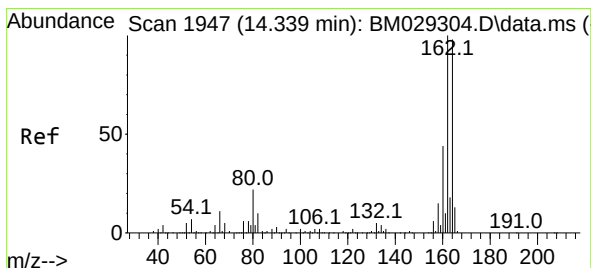
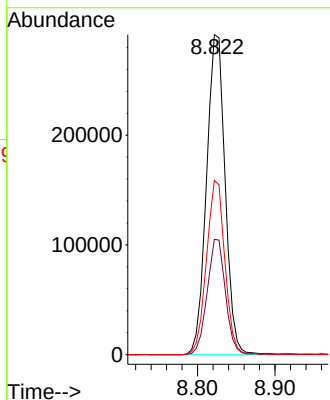
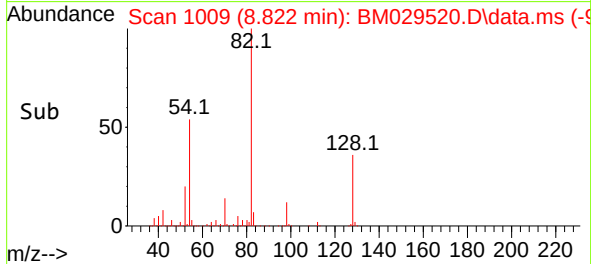
Instrument :  
BNA\_M  
ClientSampleId :  
FS-SB19B(19-20)



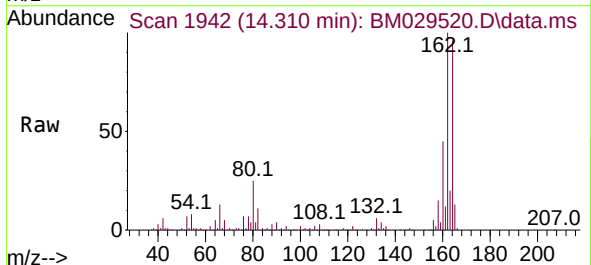
Tgt Ion: 82 Resp: 487206  
Ion Ratio Lower Upper  
82 100  
128 36.0 28.6 42.8  
54 54.4 40.7 61.1

Manual Integrations  
APPROVED

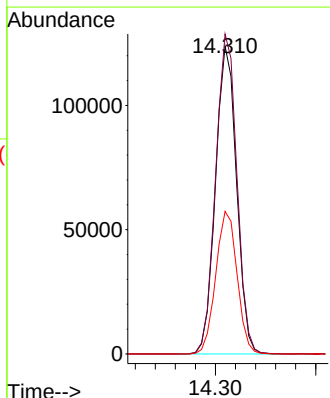
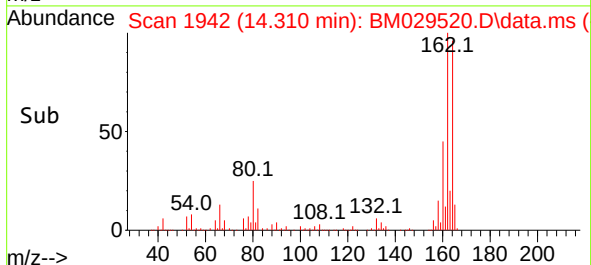
mohammad  
4/19/2021 11:46:17 AM

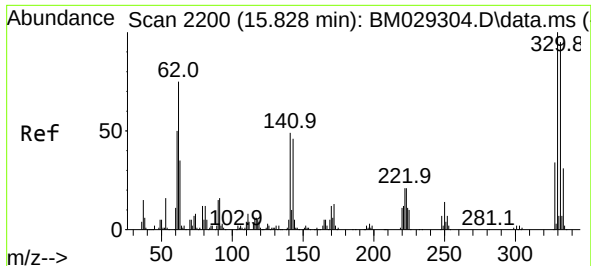


#39  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 14.310 min Scan# 1942  
Delta R.T. -0.006 min  
Lab File: BM029520.D  
Acq: 16 Apr 2021 14:04



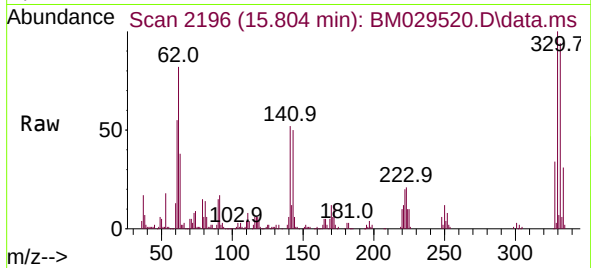
Tgt Ion: 164 Resp: 179981  
Ion Ratio Lower Upper  
164 100  
162 103.9 84.4 126.6  
160 46.3 36.6 54.8





#42  
2,4,6-Tribromophenol  
Concen: 102.62 ng  
RT: 15.804 min Scan# 2196  
Delta R.T. -0.000 min  
Lab File: BM029520.D  
Acq: 16 Apr 2021 14:04

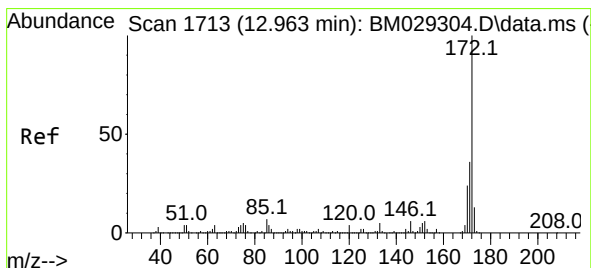
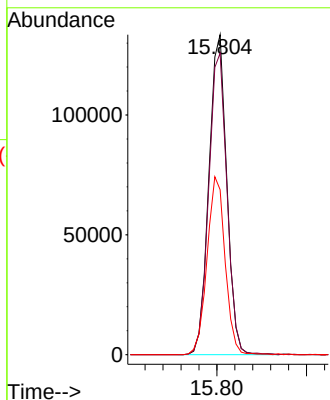
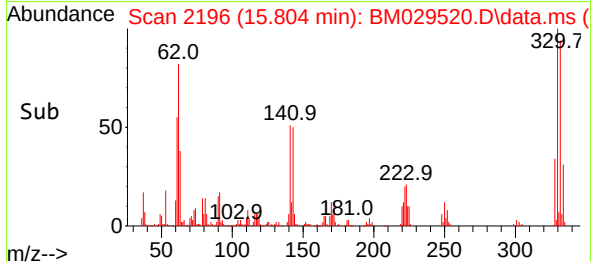
Instrument :  
BNA\_M  
ClientSampleId :  
FS-SB19B(19-20)



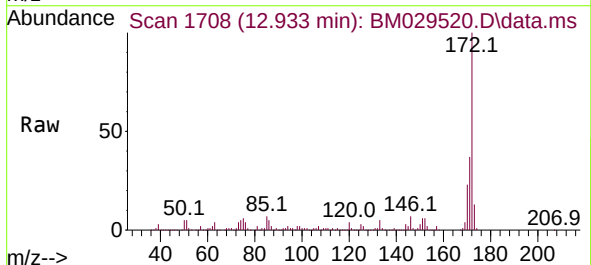
Tgt Ion:330 Resp: 184614  
Ion Ratio Lower Upper  
330 100  
332 96.4 77.1 115.7  
141 56.1 39.2 58.8

Manual Integrations  
APPROVED

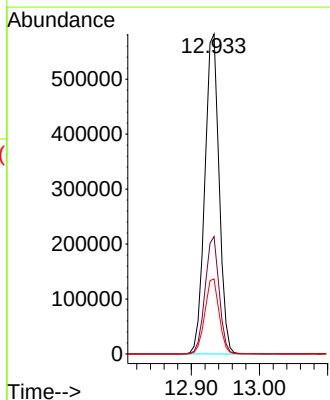
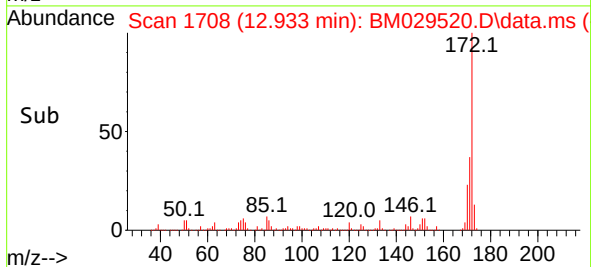
mohammad  
4/19/2021 11:46:17 AM

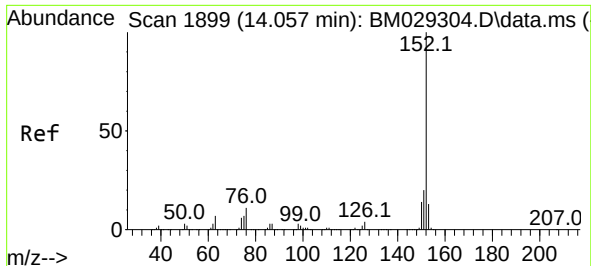


#45  
2-Fluorobiphenyl  
Concen: 65.58 ng  
RT: 12.933 min Scan# 1708  
Delta R.T. -0.000 min  
Lab File: BM029520.D  
Acq: 16 Apr 2021 14:04



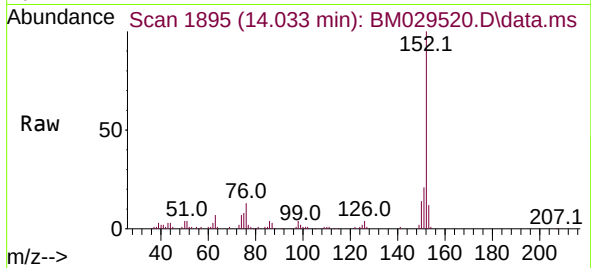
Tgt Ion:172 Resp: 847238  
Ion Ratio Lower Upper  
172 100  
171 36.7 28.7 43.1  
170 23.4 18.8 28.2





#49  
Acenaphthylene  
Concen: 3.67 ng  
RT: 14.033 min Scan# 1895  
Delta R.T. -0.000 min  
Lab File: BM029520.D  
Acq: 16 Apr 2021 14:04

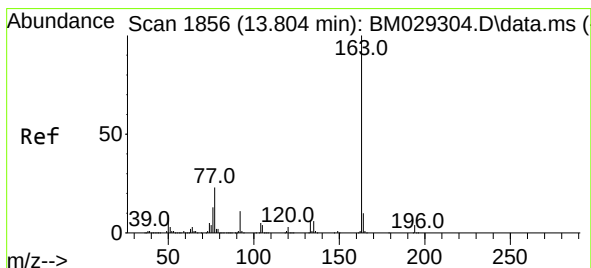
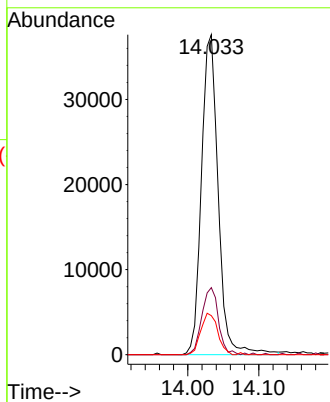
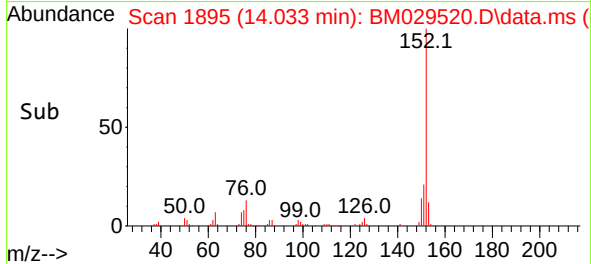
Instrument :  
BNA\_M  
ClientSampleId :  
FS-SB19B(19-20)



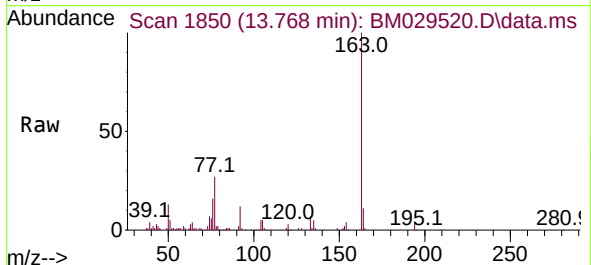
Tgt Ion:152 Resp: 61770  
Ion Ratio Lower Upper  
152 100  
151 21.0 16.2 24.4  
153 12.2 10.2 15.2

Manual Integrations  
APPROVED

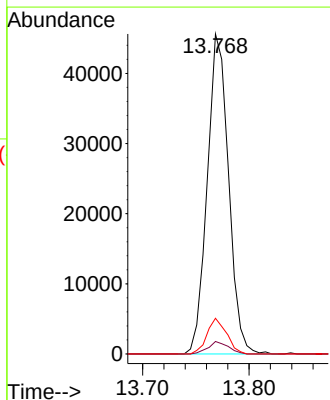
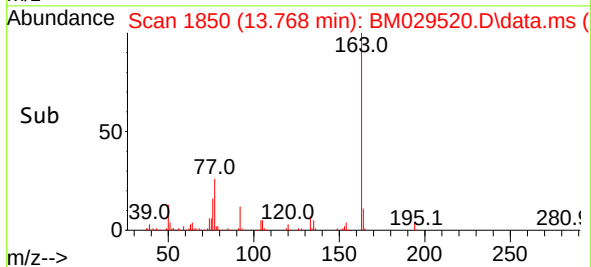
mohammad  
4/19/2021 11:46:17 AM

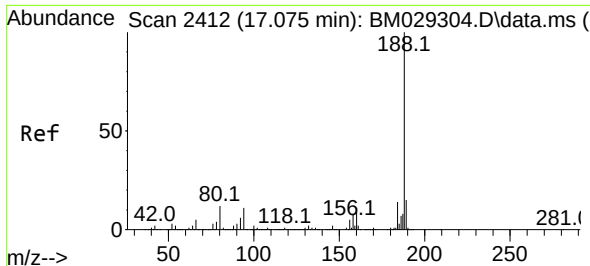


#50  
Dimethylphthalate  
Concen: 4.90 ng  
RT: 13.768 min Scan# 1850  
Delta R.T. -0.012 min  
Lab File: BM029520.D  
Acq: 16 Apr 2021 14:04



Tgt Ion:163 Resp: 63630  
Ion Ratio Lower Upper  
163 100  
194 3.9 3.2 4.8  
164 11.1 7.9 11.9





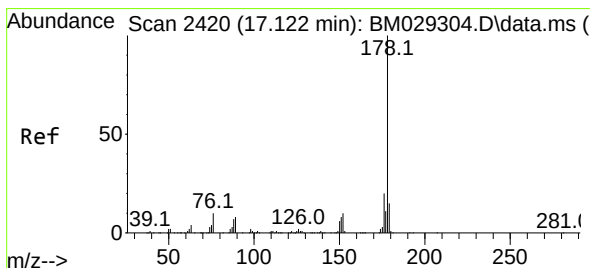
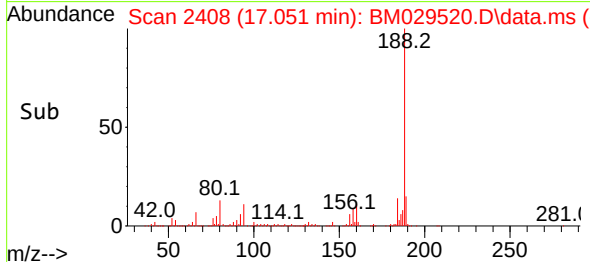
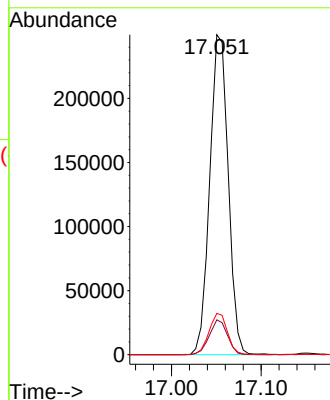
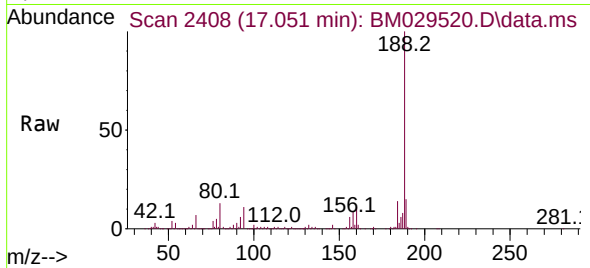
#64  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 17.051 min Scan# 2408  
Delta R.T. -0.006 min  
Lab File: BM029520.D  
Acq: 16 Apr 2021 14:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 10.9  | 8.1   | 12.1  |
| 80      | 12.9  | 9.2   | 13.8  |

Instrument :  
BNA\_M  
ClientSampleId :  
FS-SB19B(19-20)

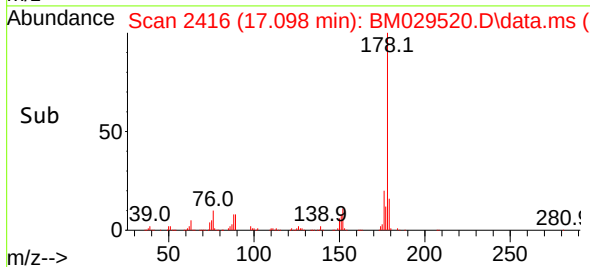
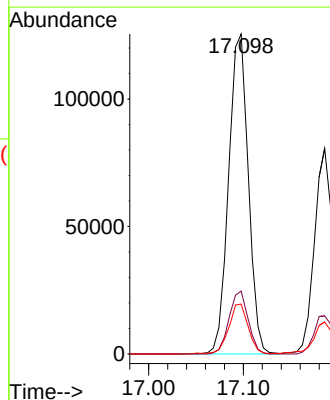
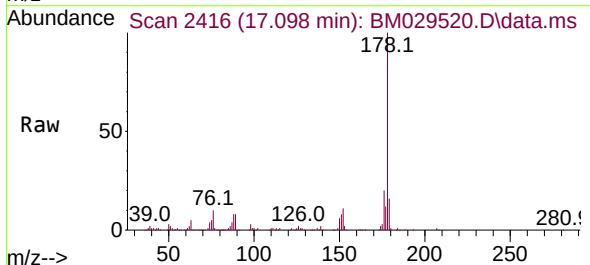
Manual Integrations  
APPROVED

mohammad  
4/19/2021 11:46:17 AM

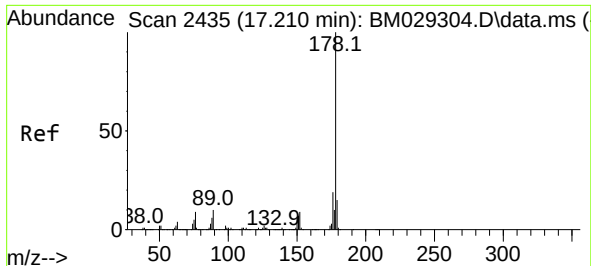


#71  
Phenanthrene  
Concen: 8.76 ng  
RT: 17.098 min Scan# 2416  
Delta R.T. -0.000 min  
Lab File: BM029520.D  
Acq: 16 Apr 2021 14:04

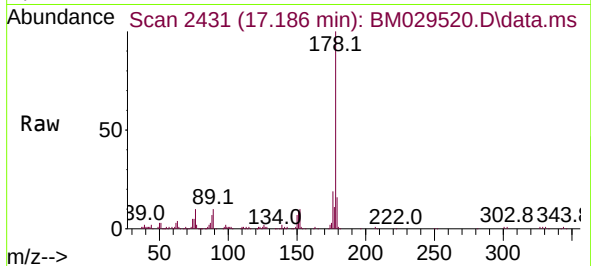
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 19.6  | 15.7  | 23.5  |
| 179     | 15.6  | 11.9  | 17.9  |



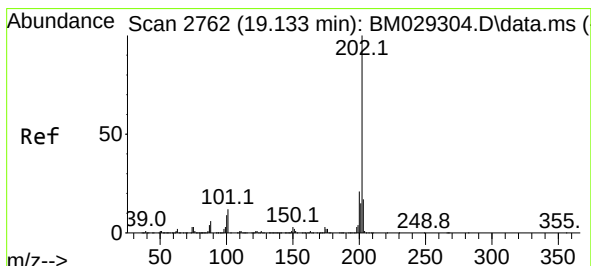
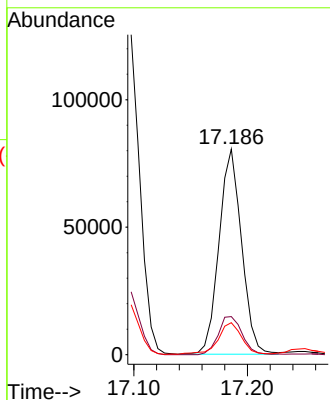
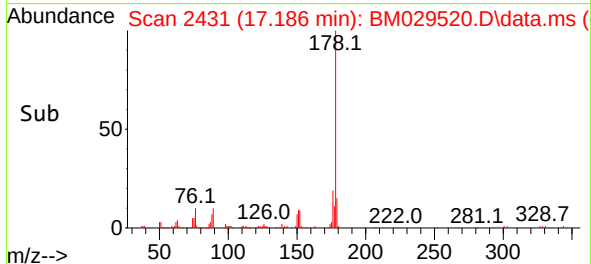




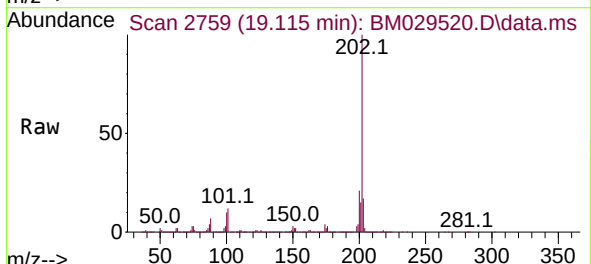
#72  
 Anthracene  
 Concen: 5.44 ng  
 RT: 17.186 min Scan# 2431  
 Delta R.T. -0.006 min  
 Lab File: BM029520.D  
 Acq: 16 Apr 2021 14:04



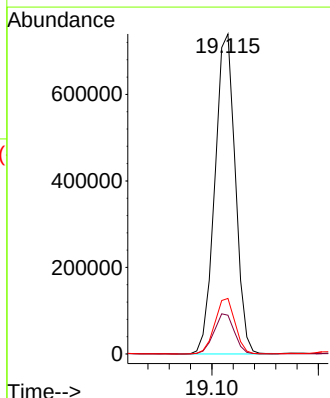
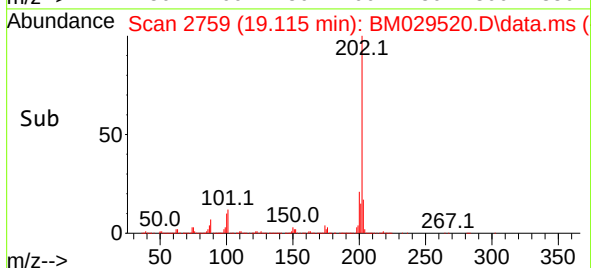
Tgt Ion:178 Resp: 110991  
 Ion Ratio Lower Upper  
 178 100  
 176 18.5 14.9 22.3  
 179 15.5 12.1 18.1



#75  
 Fluoranthene  
 Concen: 42.73 ng  
 RT: 19.115 min Scan# 2759  
 Delta R.T. -0.000 min  
 Lab File: BM029520.D  
 Acq: 16 Apr 2021 14:04



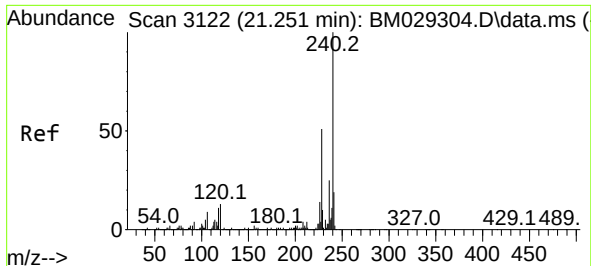
Tgt Ion:202 Resp: 982786  
 Ion Ratio Lower Upper  
 202 100  
 101 12.1 0.0 31.5  
 203 17.4 0.0 37.7



Instrument :  
 BNA\_M  
 ClientSampleId :  
 FS-SB19B(19-20)

Manual Integrations  
 APPROVED

mohammad  
 4/19/2021 11:46:17 AM



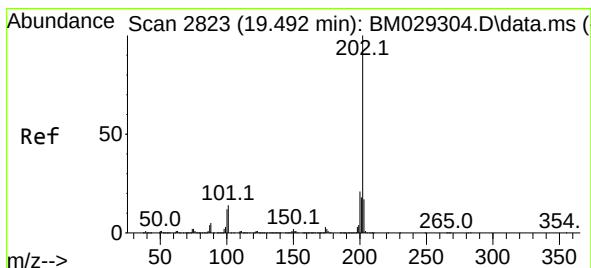
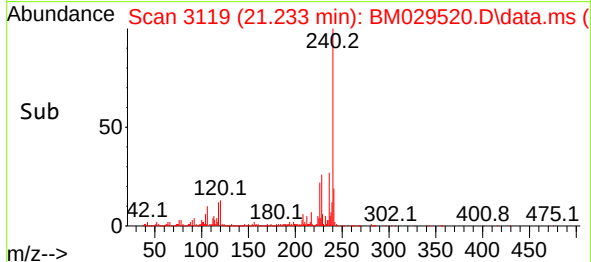
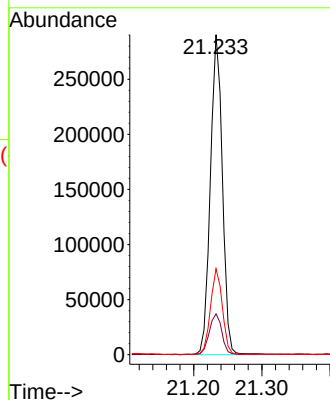
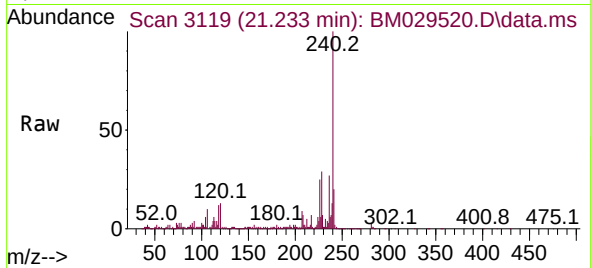
#76  
Chrysene-d12  
Concen: 20.00 ng  
RT: 21.233 min Scan# 3119  
Delta R.T. -0.000 min  
Lab File: BM029520.D  
Acq: 16 Apr 2021 14:04

Tgt Ion:240 Resp: 356510  
Ion Ratio Lower Upper  
240 100  
120 12.8 9.0 13.6  
236 26.8 20.3 30.5

Instrument :  
BNA\_M  
ClientSampleId :  
FS-SB19B(19-20)

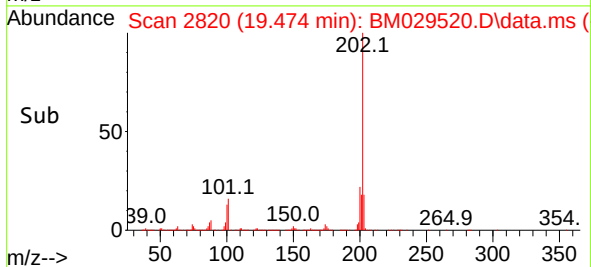
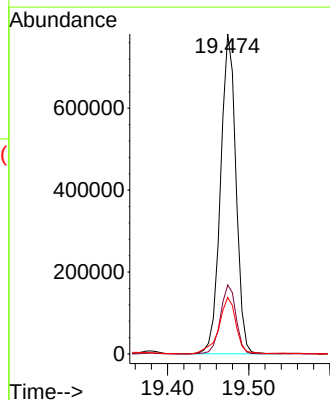
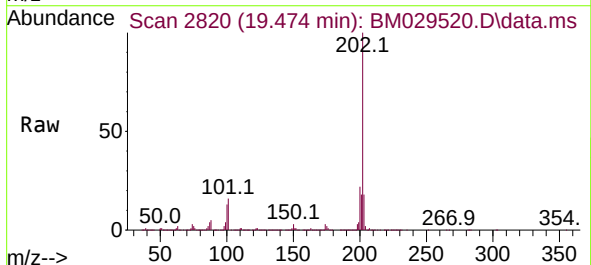
Manual Integrations  
APPROVED

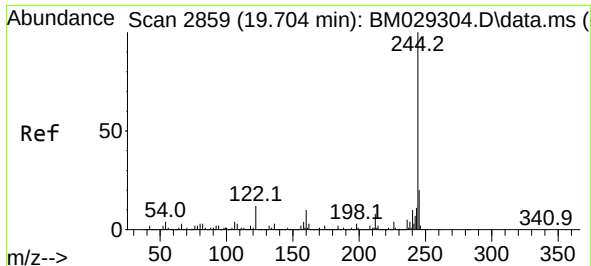
mohammad  
4/19/2021 11:46:17 AM



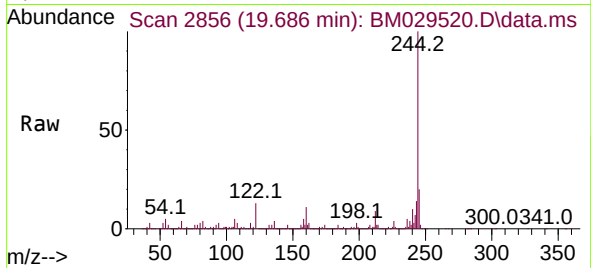
#78  
Pyrene  
Concen: 41.75 ng  
RT: 19.474 min Scan# 2820  
Delta R.T. -0.000 min  
Lab File: BM029520.D  
Acq: 16 Apr 2021 14:04

Tgt Ion:202 Resp: 1034392  
Ion Ratio Lower Upper  
202 100  
200 21.6 17.0 25.6  
203 17.7 14.1 21.1

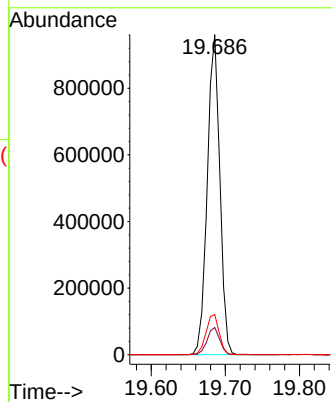
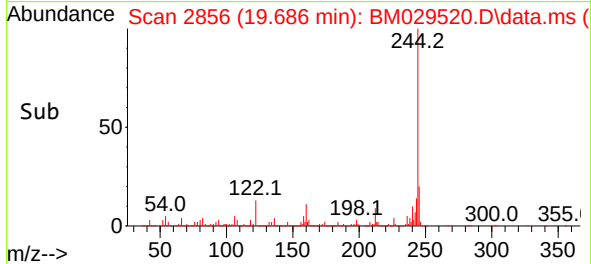




#79  
Terphenyl-d14  
Concen: 60.30 ng  
RT: 19.686 min Scan# 2856  
Delta R.T. -0.000 min  
Lab File: BM029520.D  
Acq: 16 Apr 2021 14:04



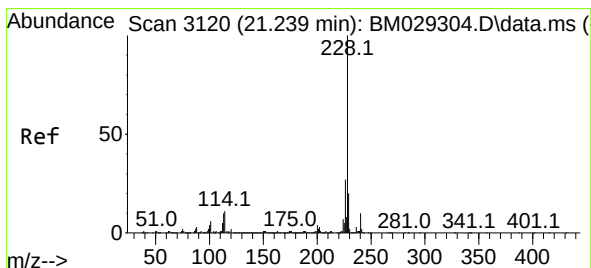
Tgt Ion:244 Resp: 1131849  
Ion Ratio Lower Upper  
244 100  
212 8.5 6.5 9.7  
122 12.5 9.2 13.8



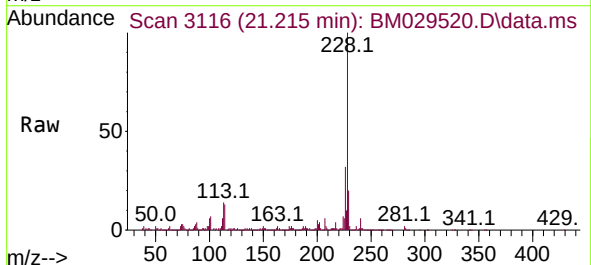
Instrument :  
BNA\_M  
ClientSampleId :  
FS-SB19B(19-20)

Manual Integrations  
APPROVED

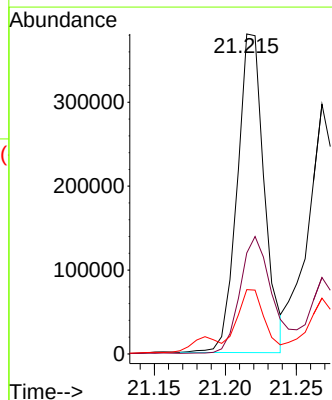
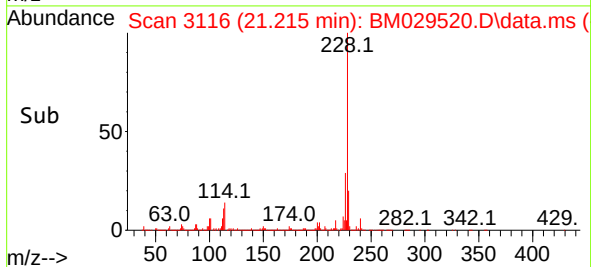
mohammad  
4/19/2021 11:46:17 AM

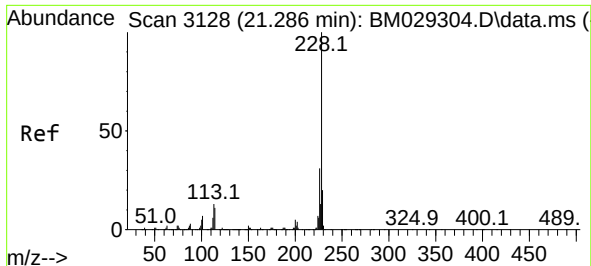


#81  
Benzo(a)anthracene  
Concen: 21.22 ng  
RT: 21.215 min Scan# 3116  
Delta R.T. -0.006 min  
Lab File: BM029520.D  
Acq: 16 Apr 2021 14:04



Tgt Ion:228 Resp: 504835  
Ion Ratio Lower Upper  
228 100  
226 31.5 21.9 32.9  
229 20.1 15.7 23.5





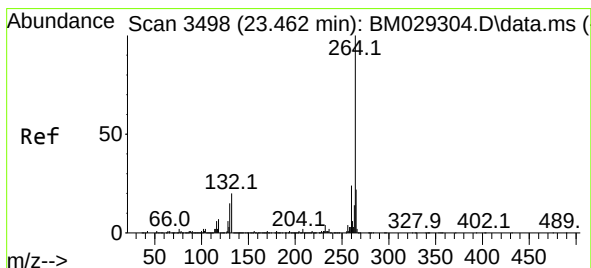
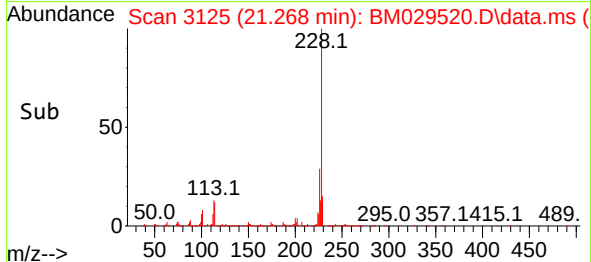
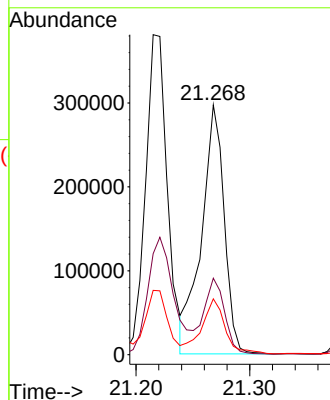
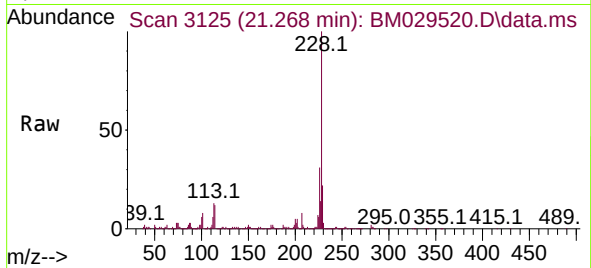
#83  
Chrysene  
Concen: 17.69 ng  
RT: 21.268 min Scan# 3125  
Delta R.T. -0.006 min  
Lab File: BM029520.D  
Acq: 16 Apr 2021 14:04

Tgt Ion:228 Resp: 412038  
Ion Ratio Lower Upper  
228 100  
226 30.6 24.7 37.1  
229 22.4 15.8 23.6

Instrument :  
BNA\_M  
ClientSampleId :  
FS-SB19B(19-20)

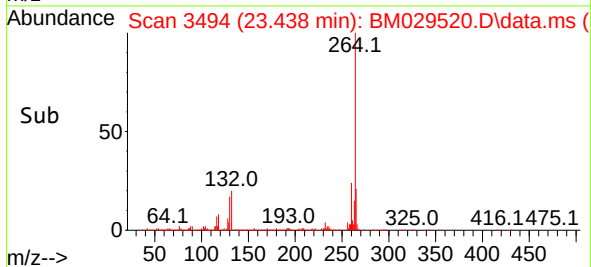
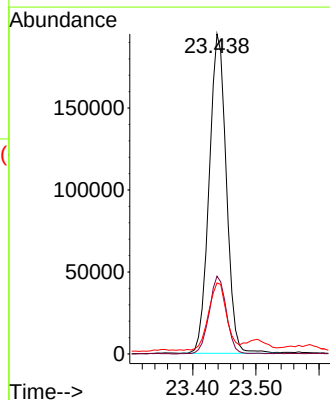
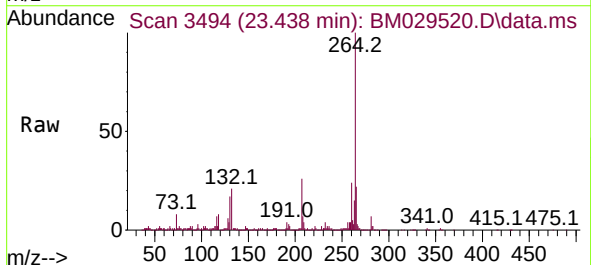
Manual Integrations  
APPROVED

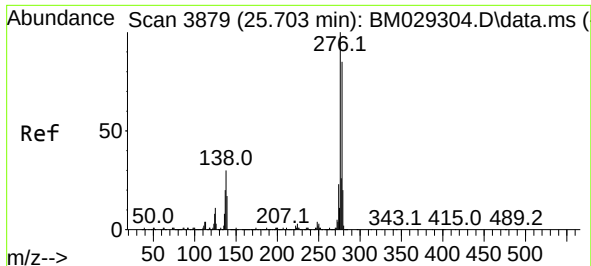
mohammad  
4/19/2021 11:46:17 AM



#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 23.438 min Scan# 3494  
Delta R.T. -0.000 min  
Lab File: BM029520.D  
Acq: 16 Apr 2021 14:04

Tgt Ion:264 Resp: 367487  
Ion Ratio Lower Upper  
264 100  
260 24.3 19.6 29.4  
265 22.2 17.8 26.8





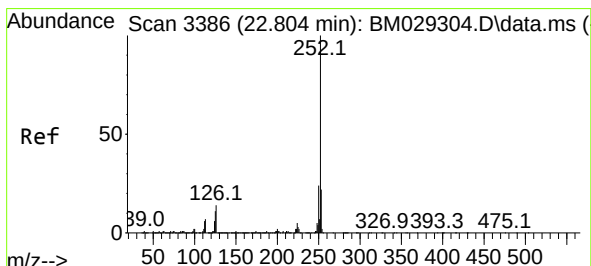
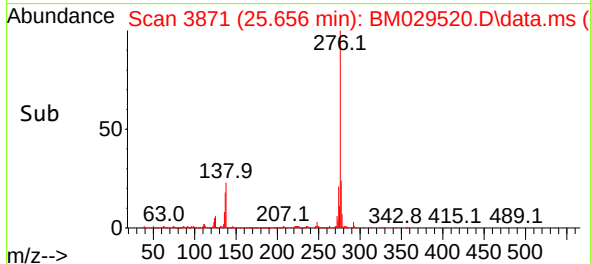
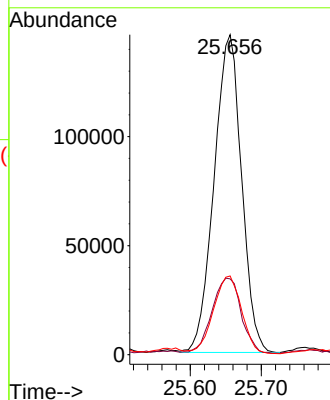
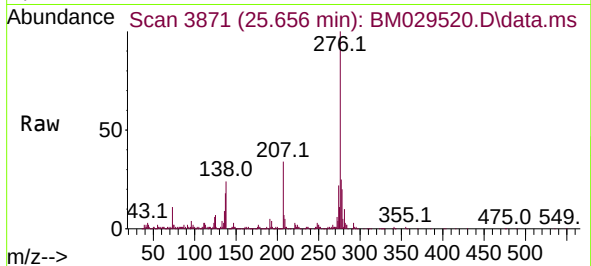
#87  
Indeno(1,2,3-cd)pyrene  
Concen: 14.43 ng  
RT: 25.656 min Scan# 3871  
Delta R.T. -0.012 min  
Lab File: BM029520.D  
Acq: 16 Apr 2021 14:04

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 276   | Resp: | 390998 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 138       | 25.4  | 22.6  | 34.0   |
| 277       | 25.2  | 20.2  | 30.4   |

Instrument :  
BNA\_M  
ClientSampleId :  
FS-SB19B(19-20)

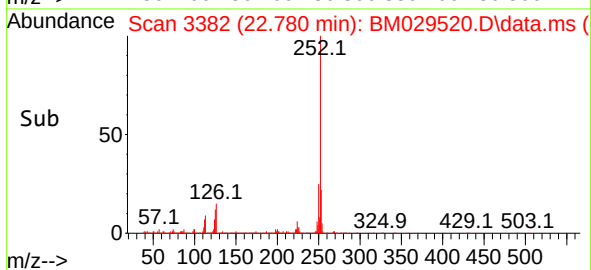
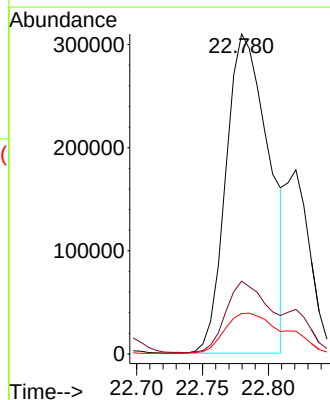
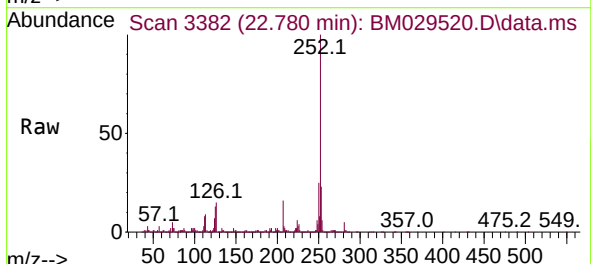
Manual Integrations  
APPROVED

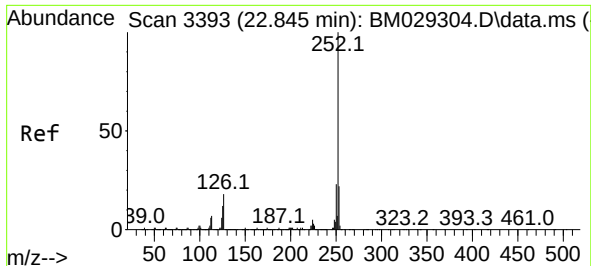
mohammad  
4/19/2021 11:46:17 AM



#88  
Benzo(b)fluoranthene  
Concen: 29.11 ng m  
RT: 22.780 min Scan# 3382  
Delta R.T. -0.000 min  
Lab File: BM029520.D  
Acq: 16 Apr 2021 14:04

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 702475 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 22.8  | 17.6  | 26.4   |
| 125       | 12.7  | 9.0   | 13.4   |





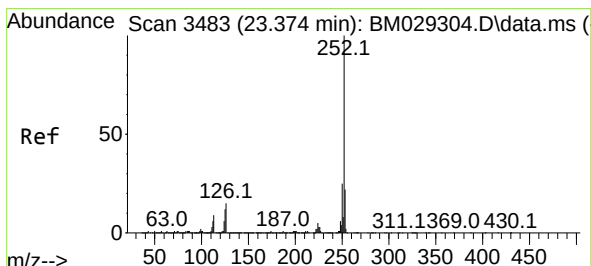
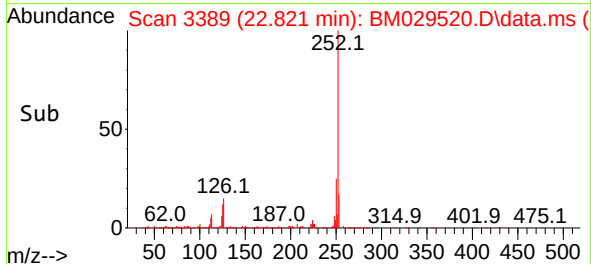
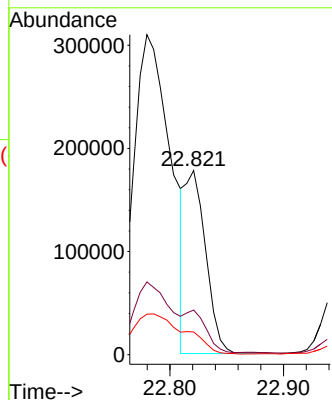
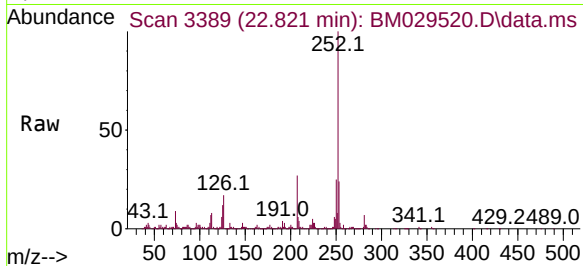
#89  
Benzo(k)fluoranthene  
Concen: 9.74 ng m  
RT: 22.821 min Scan# 3389  
Delta R.T. -0.006 min  
Lab File: BM029520.D  
Acq: 16 Apr 2021 14:04

Tgt Ion:252 Resp: 224687  
Ion Ratio Lower Upper  
252 100  
253 24.2 17.6 26.4  
125 12.4 8.7 13.1

Instrument :  
BNA\_M  
ClientSampleId :  
FS-SB19B(19-20)

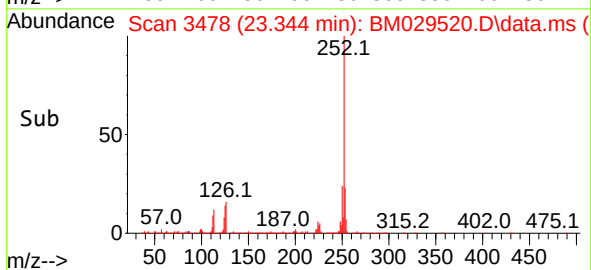
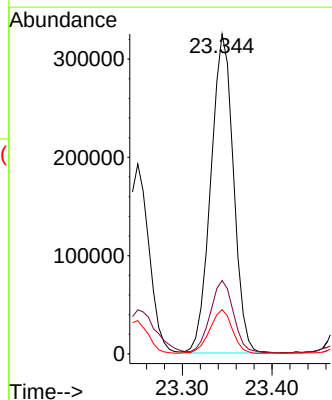
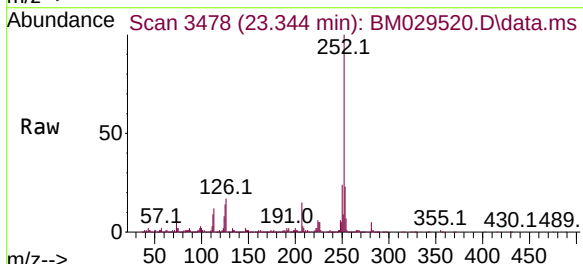
Manual Integrations  
APPROVED

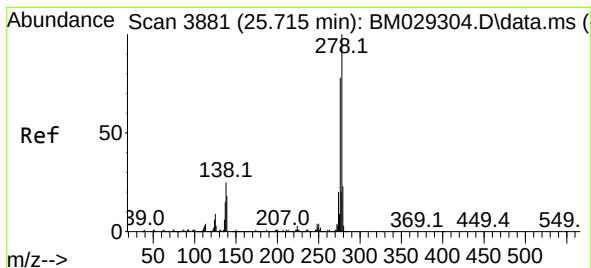
mohammad  
4/19/2021 11:46:17 AM



#90  
Benzo(a)pyrene  
Concen: 25.80 ng  
RT: 23.344 min Scan# 3478  
Delta R.T. -0.000 min  
Lab File: BM029520.D  
Acq: 16 Apr 2021 14:04

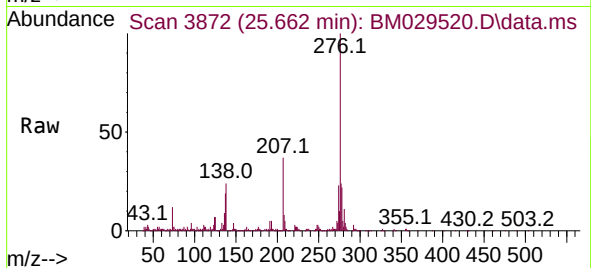
Tgt Ion:252 Resp: 569162  
Ion Ratio Lower Upper  
252 100  
253 23.0 17.0 25.4  
125 13.9 9.5 14.3





#91  
Dibenzo(a,h)anthracene  
Concen: 3.74 ng m  
RT: 25.662 min Scan# 3872  
Delta R.T. -0.012 min  
Lab File: BM029520.D  
Acq: 16 Apr 2021 14:04

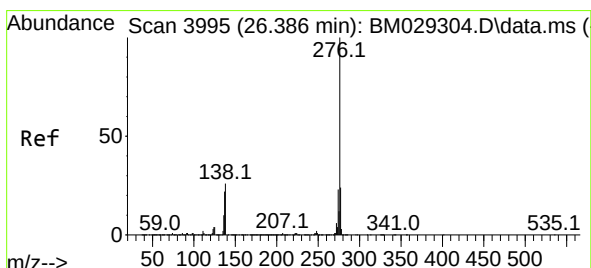
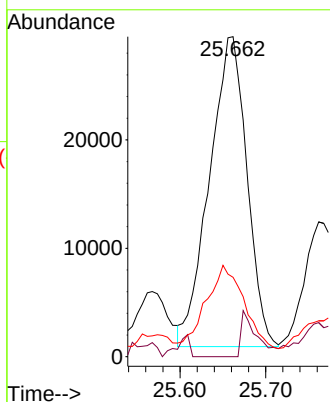
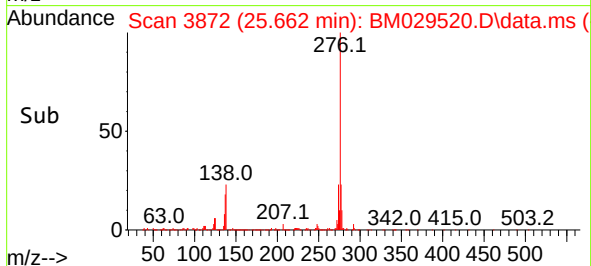
Instrument :  
BNA\_M  
ClientSampleId :  
FS-SB19B(19-20)



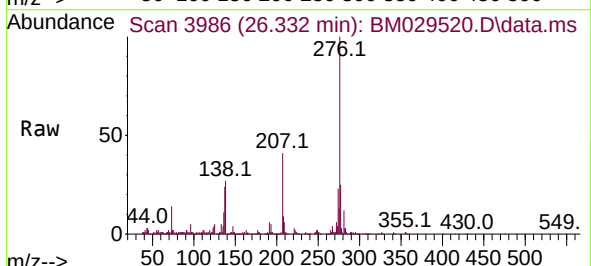
Tgt Ion:278 Resp: 86947  
Ion Ratio Lower Upper  
278 100  
139 0.0 14.8 22.2#  
279 24.8 19.3 28.9

Manual Integrations  
APPROVED

mohammad  
4/19/2021 11:46:17 AM



#92  
Benzo(g,h,i)perylene  
Concen: 16.05 ng  
RT: 26.332 min Scan# 3986  
Delta R.T. -0.012 min  
Lab File: BM029520.D  
Acq: 16 Apr 2021 14:04



Tgt Ion:276 Resp: 359935  
Ion Ratio Lower Upper  
276 100  
277 24.7 18.7 28.1  
138 27.4 19.0 28.4

