

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP071620\  
 Data File : BP002782.D  
 Acq On : 16 Jul 2020 20:45  
 Operator : CG/JU  
 Sample : L3184-07 5X  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_P  
 ClientSampleId :  
 EO-01-071520

Manual Integrations  
 APPROVED

mohammad  
 7/17/2020 12:30:43 PM

Quant Time: Jul 17 01:19:42 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA P\METHODS\8270-BP071020.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jul 13 10:54:03 2020  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.56  | 152  | 249715   | 20.00 | ng    | 0.01     |
| 21) Naphthalene-d8          | 10.33 | 136  | 982842   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10        | 14.21 | 164  | 535845   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10        | 16.97 | 188  | 876908   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12            | 21.08 | 240  | 611248   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12            | 23.27 | 264  | 629162   | 20.00 | ng    | 0.01     |
| System Monitoring Compounds |       |      |          |       |       |          |
| 5) 2-Fluorophenol           | 5.19  | 112  | 225441   | 15.23 | ng    | 0.00     |
| 7) Phenol-d6                | 6.76  | 99   | 309501   | 14.65 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 8.70  | 82   | 199028   | 10.83 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 15.72 | 330  | 72878    | 13.03 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 12.82 | 172  | 422328   | 12.19 | ng    | 0.00     |
| 79) Terphenyl-d14           | 19.56 | 244  | 306691   | 11.50 | ng    | 0.00     |
| Target Compounds            |       |      |          |       |       |          |
| 50) Dimethylphthalate       | 13.67 | 163  | 82982    | 2.031 | ng    | 99       |
| 71) Phenanthrene            | 17.01 | 178  | 250196   | 5.270 | ng    | 100      |
| 75) Fluoranthene            | 19.00 | 202  | 332491   | 6.044 | ng    | 97       |
| 78) Pyrene                  | 19.35 | 202  | 311548   | 7.382 | ng    | 99       |
| 81) Benzo(a)anthracene      | 21.06 | 228  | 131074   | 3.313 | ng    | 97       |
| 83) Chrysene                | 21.12 | 228  | 119027m  | 3.160 | ng    |          |
| 88) Benzo(b)fluoranthene    | 22.62 | 252  | 130063   | 3.329 | ng    | # 89     |
| 90) Benzo(a)pyrene          | 23.17 | 252  | 97882    | 2.644 | ng    | # 90     |

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

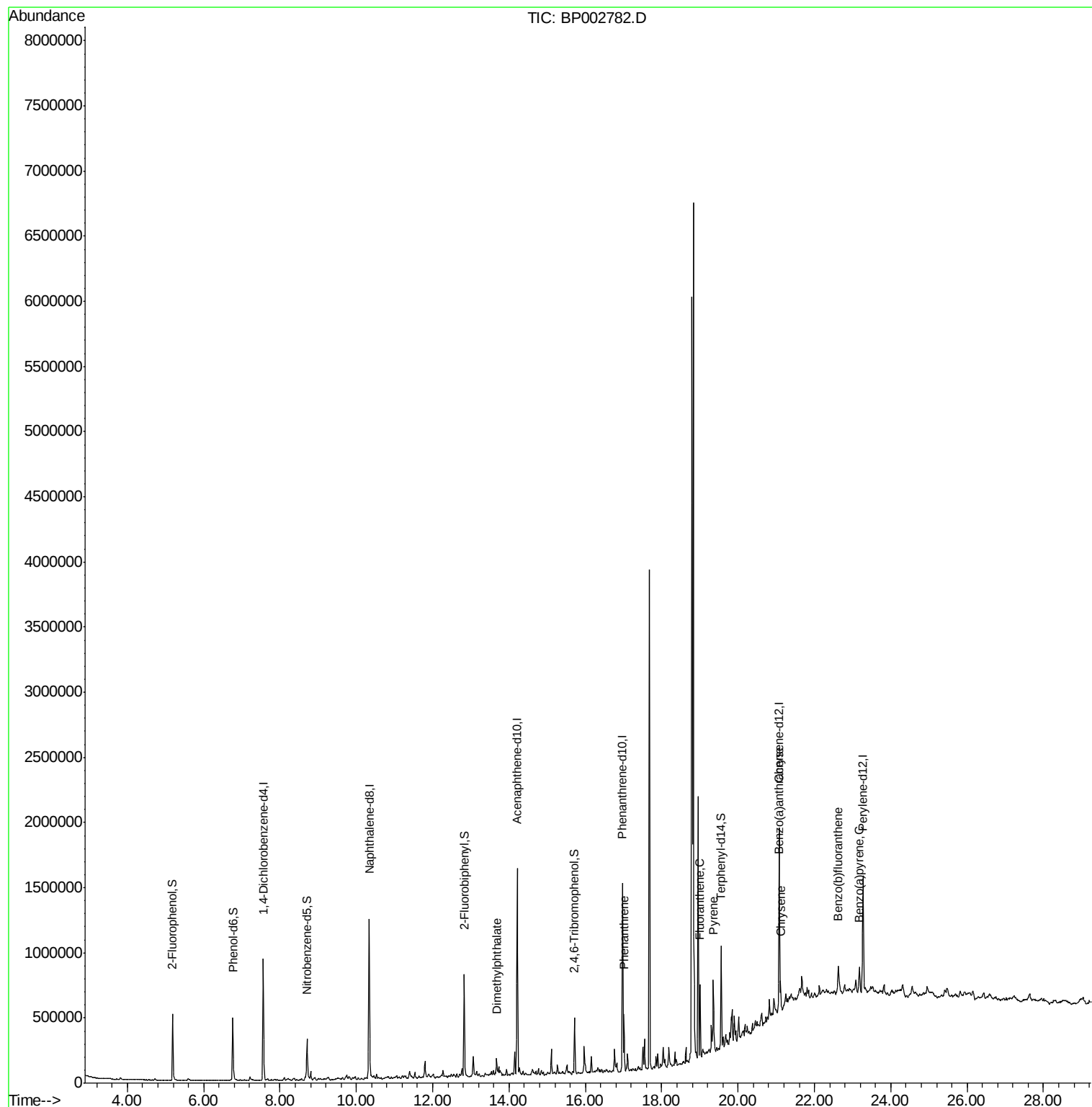
Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP071620\  
Data File : BP002782.D  
Acq On : 16 Jul 2020 20:45  
Operator : CG/JU  
Sample : L3184-07 5X  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

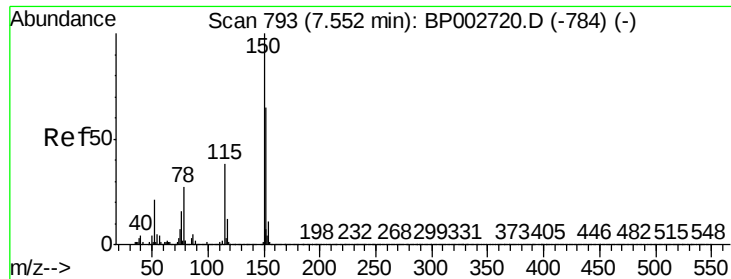
Instrument :  
BNA\_P  
ClientSampleId :  
EO-01-071520

Manual Integrations  
APPROVED

mohammad  
7/17/2020 12:30:43 PM

Quant Time: Jul 17 01:19:42 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA P\METHODS\8270-BP071020.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Jul 13 10:54:03 2020  
Response via : Initial Calibration





#1

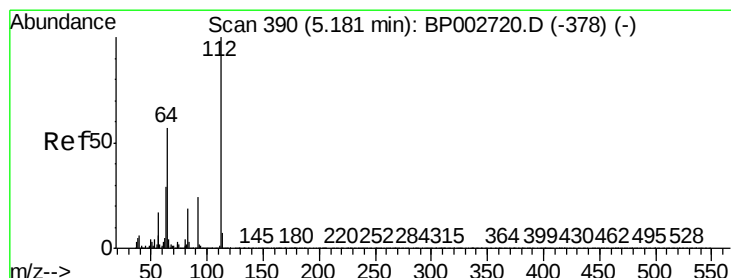
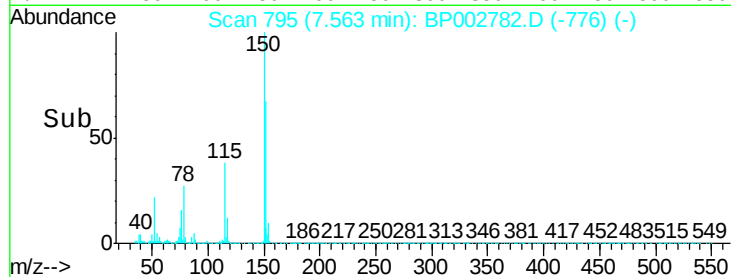
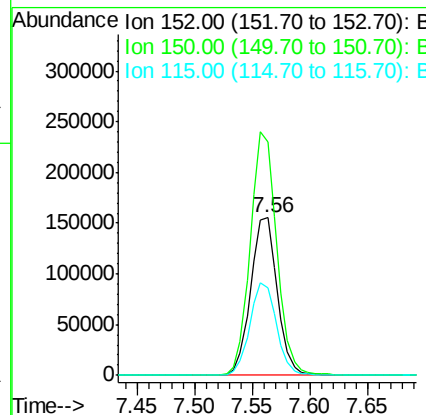
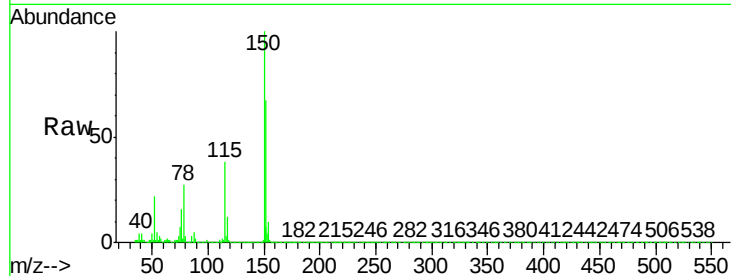
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.56 min Scan# 795  
Delta R.T. 0.01 min  
Lab File: BP002782.D  
Acq: 16 Jul 2020 20:45

Instrument :  
BNA\_P  
ClientSampleId :  
EO-01-071520

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 148.3 | 123.7 | 185.5 |
| 115     | 55.9  | 47.2  | 70.8  |

Manual Integrations  
APPROVED

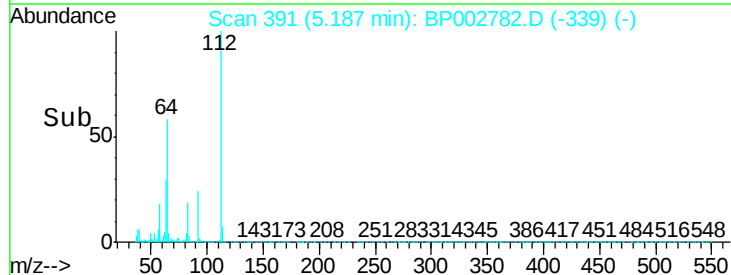
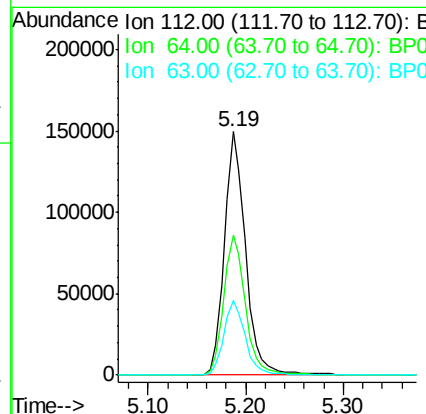
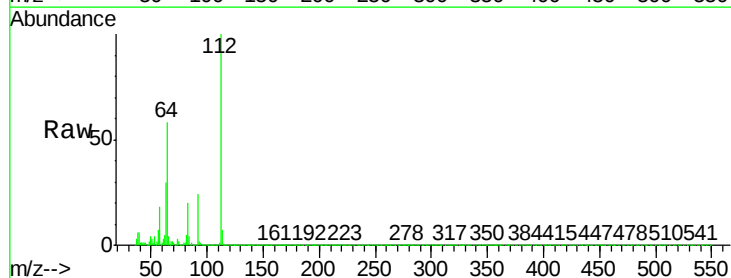
mohammad  
7/17/2020 12:30:43 PM

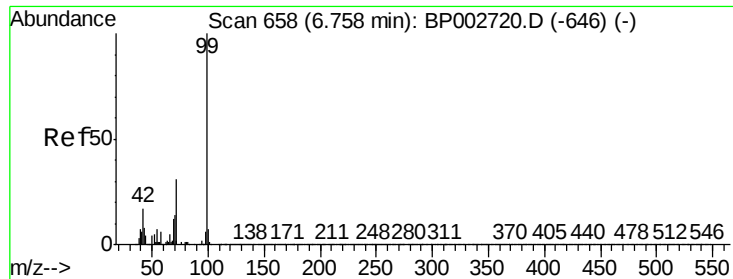


#5

2-Fluorophenol  
Concen: 15.232 ng  
RT: 5.19 min Scan# 391  
Delta R.T. 0.01 min  
Lab File: BP002782.D  
Acq: 16 Jul 2020 20:45

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 57.6  | 45.6  | 68.4  |
| 63      | 30.4  | 23.5  | 35.3  |





#7

Phenol-d6

Concen: 14.652 ng

RT: 6.76 min Scan# 659

Delta R.T. 0.01 min

Lab File: BP002782.D

Acq: 16 Jul 2020 20:45

Instrument :

BNA\_P

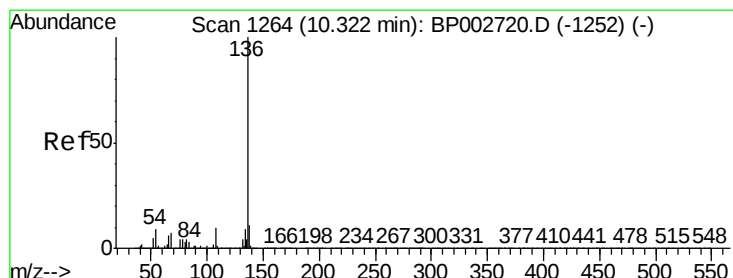
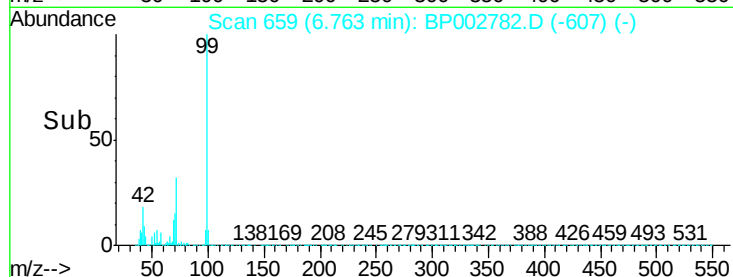
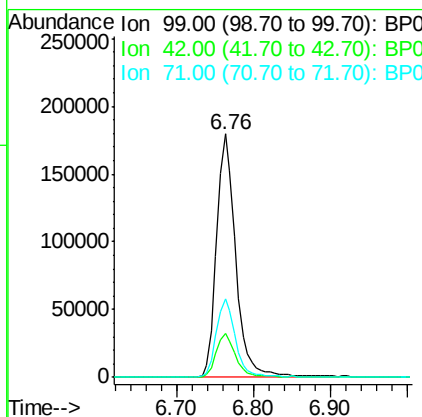
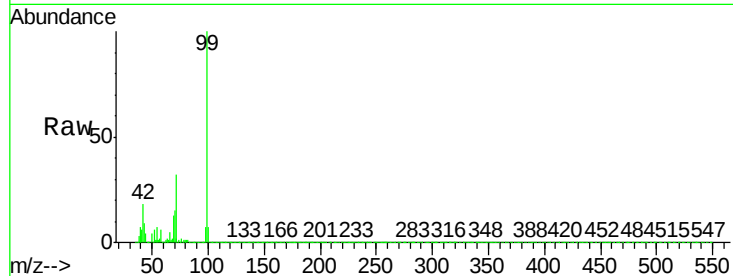
ClientSampleId :

EO-01-071520

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 99    | Resp: | 309501 |
| Ion Ratio | Lower | Upper |        |
| 99        | 100   |       |        |
| 42        | 17.9  | 13.4  | 20.2   |
| 71        | 32.3  | 24.6  | 36.8   |

Manual Integrations  
APPROVED

mohammad  
7/17/2020 12:30:43 PM



#21

Naphthalene-d8

Concen: 20.000 ng

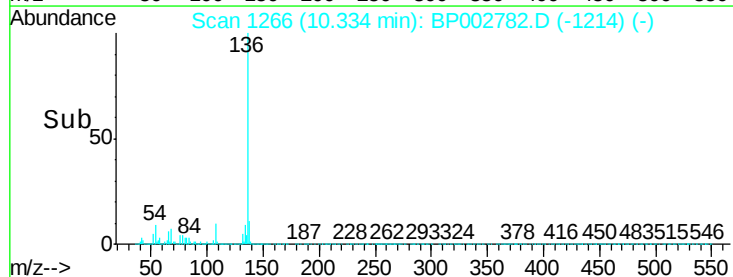
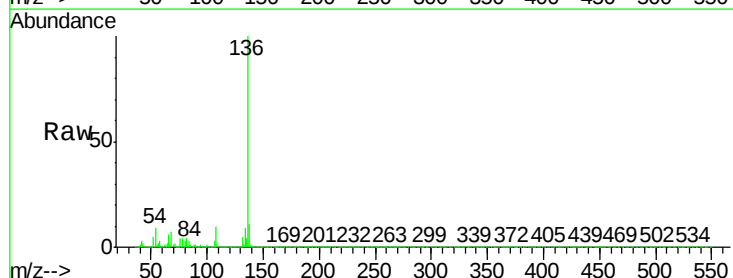
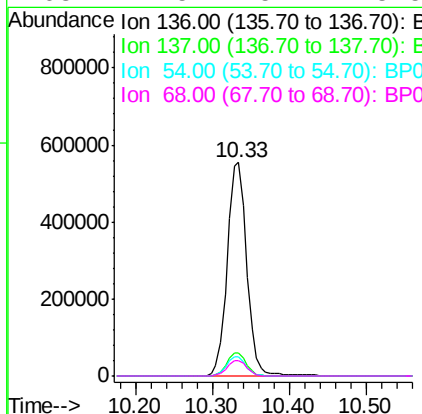
RT: 10.33 min Scan# 1266

Delta R.T. 0.01 min

Lab File: BP002782.D

Acq: 16 Jul 2020 20:45

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 136   | Resp: | 982842 |
| Ion Ratio | Lower | Upper |        |
| 136       | 100   |       |        |
| 137       | 11.1  | 8.6   | 13.0   |
| 54        | 8.9   | 6.9   | 10.3   |
| 68        | 7.5   | 5.7   | 8.5    |





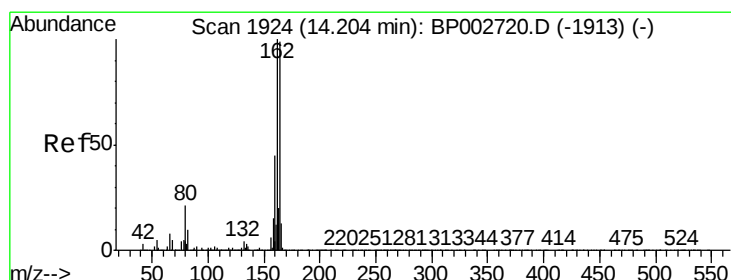
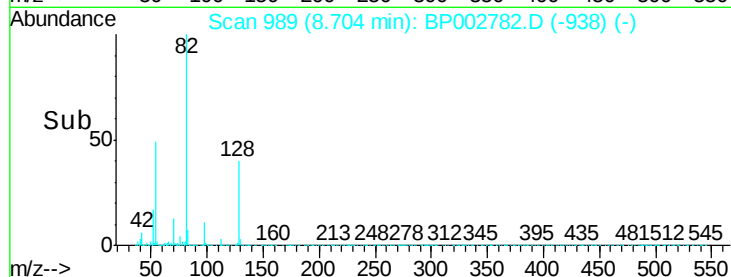
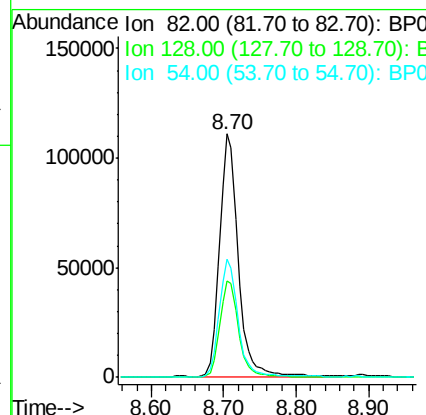
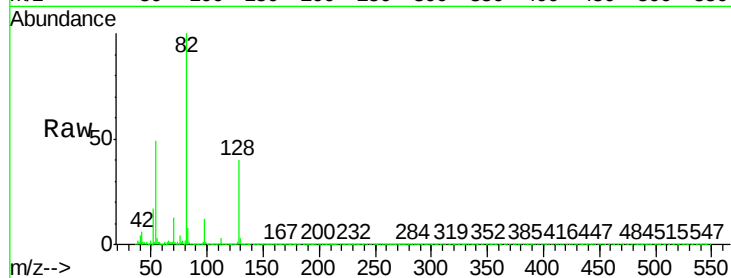
#23  
Nitrobenzene-d5  
Concen: 10.831 ng  
RT: 8.70 min Scan# 989  
Delta R.T. -0.00 min  
Lab File: BP002782.D  
Acq: 16 Jul 2020 20:45

Instrument :  
BNA\_P  
ClientSampled :  
EO-01-071520

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 39.8  | 33.8  | 50.8  |
| 54      | 48.5  | 38.8  | 58.2  |

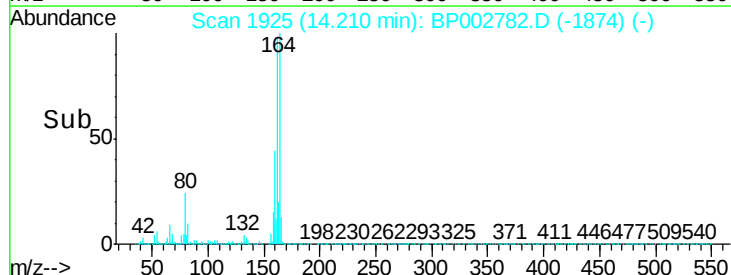
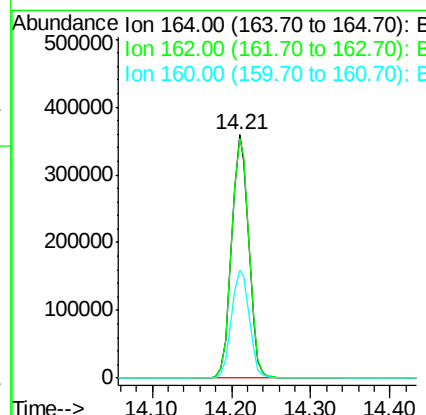
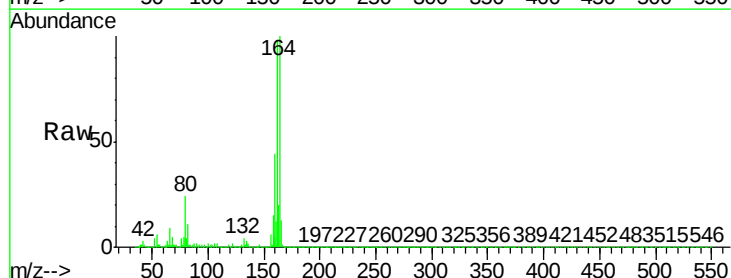
Manual Integrations  
APPROVED

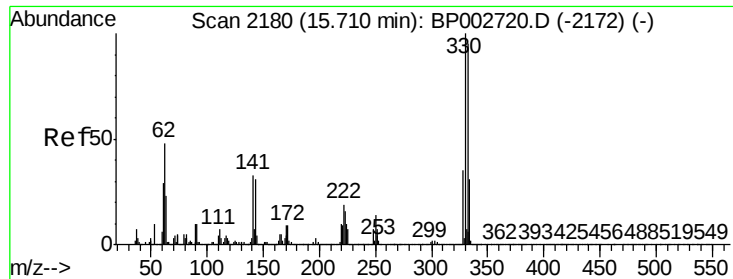
mohammad  
7/17/2020 12:30:43 PM



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.21 min Scan# 1925  
Delta R.T. -0.00 min  
Lab File: BP002782.D  
Acq: 16 Jul 2020 20:45

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 98.3  | 80.6  | 121.0 |
| 160     | 44.3  | 36.4  | 54.6  |





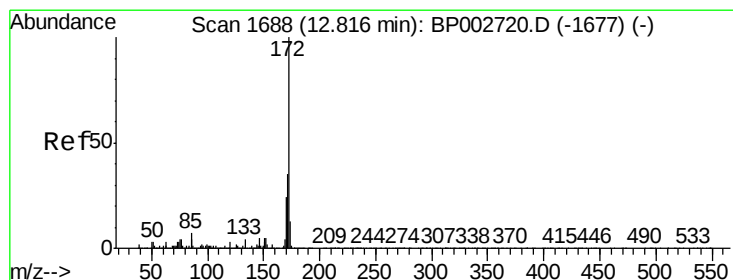
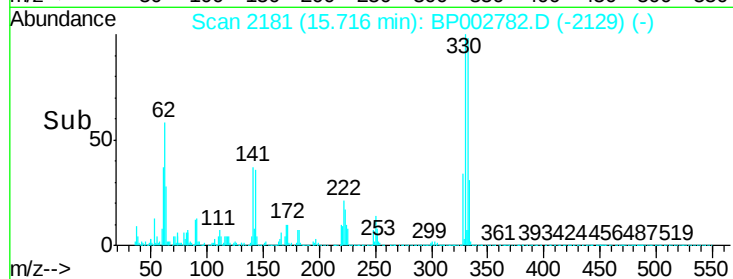
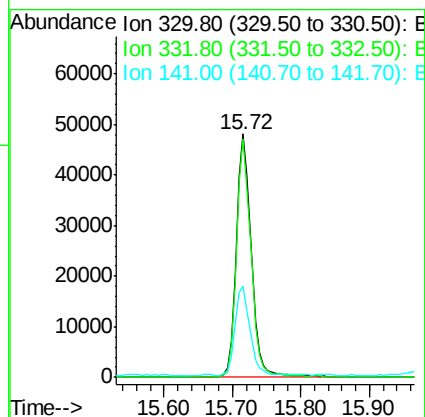
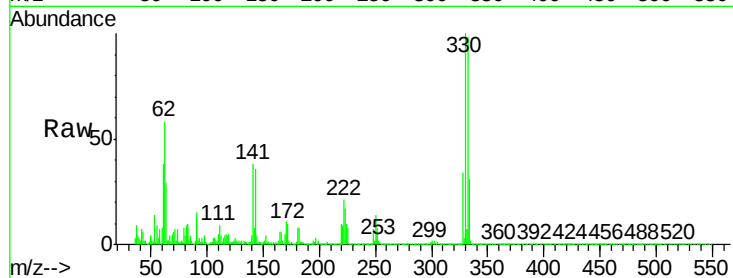
#42  
 2,4,6-Tribromophenol  
 Concen: 13.029 ng  
 RT: 15.72 min Scan# 2181  
 Delta R.T. 0.01 min  
 Lab File: BP002782.D  
 Acq: 16 Jul 2020 20:45

Instrument :  
 BNA\_P  
 ClientSampleId :  
 EO-01-071520

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 94.8  | 76.5  | 114.7 |
| 141     | 36.2  | 28.8  | 43.2  |

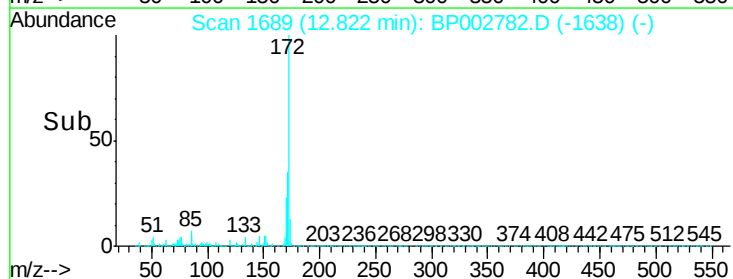
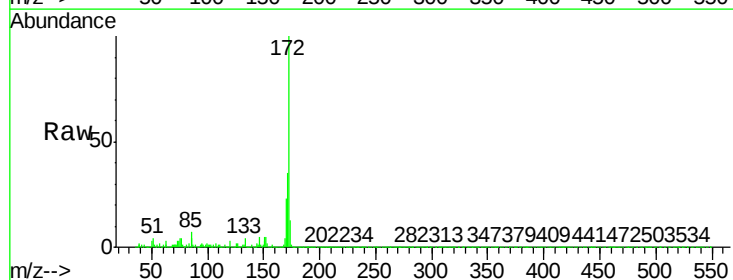
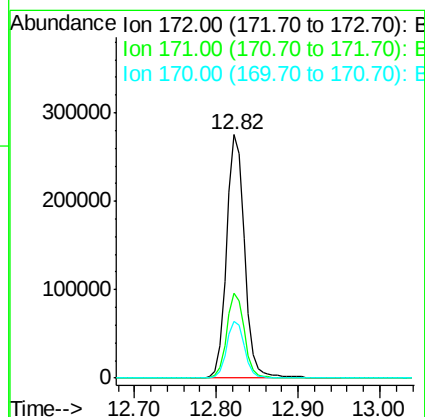
Manual Integrations  
 APPROVED

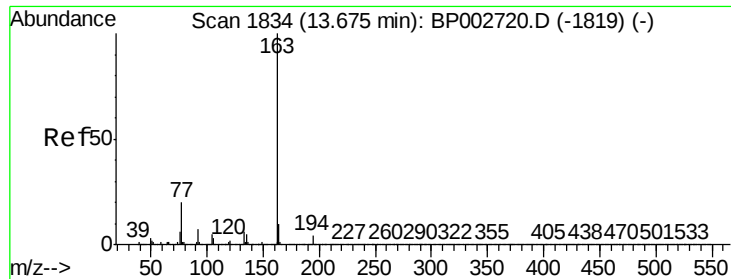
mohammad  
 7/17/2020 12:30:43 PM



#45  
 2-Fluorobiphenyl  
 Concen: 12.193 ng  
 RT: 12.82 min Scan# 1689  
 Delta R.T. -0.00 min  
 Lab File: BP002782.D  
 Acq: 16 Jul 2020 20:45

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.1  | 28.1  | 42.1  |
| 170     | 23.4  | 19.3  | 28.9  |





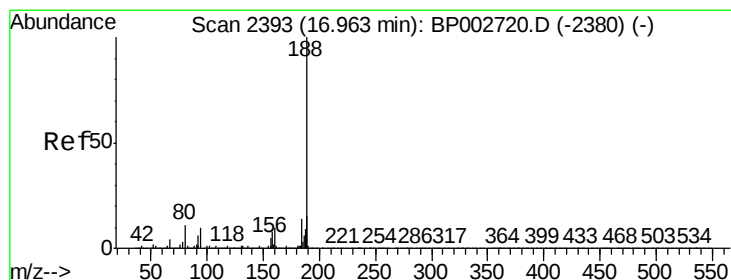
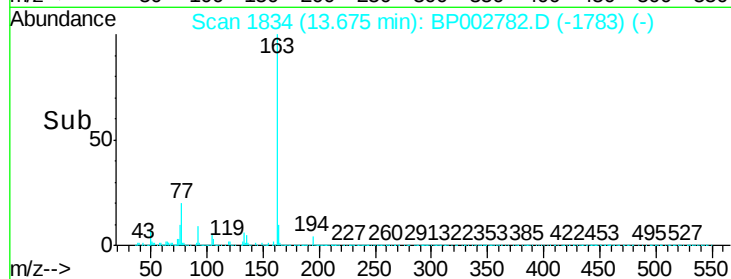
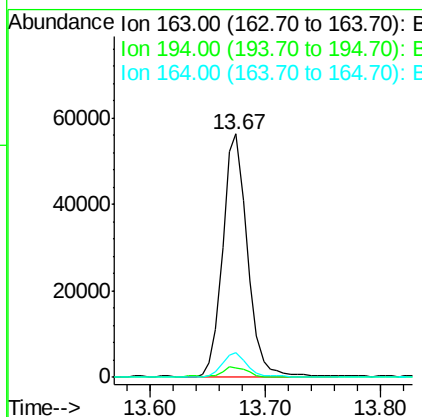
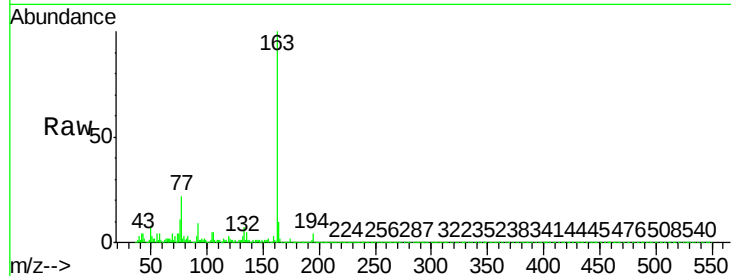
#50  
Dimethylphthalate  
Concen: 2.031 ng  
RT: 13.67 min Scan# 1834  
Delta R.T. -0.00 min  
Lab File: BP002782.D  
Acq: 16 Jul 2020 20:45

Instrument :  
BNA\_P  
ClientSampleId :  
EO-01-071520

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 3.9   | 3.4   | 5.2   |
| 164     | 10.4  | 7.8   | 11.8  |

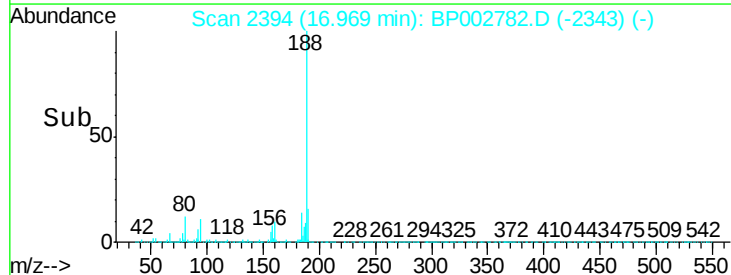
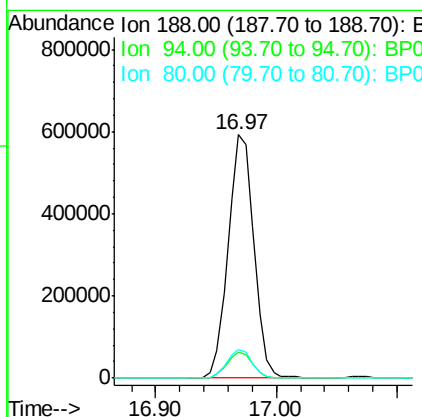
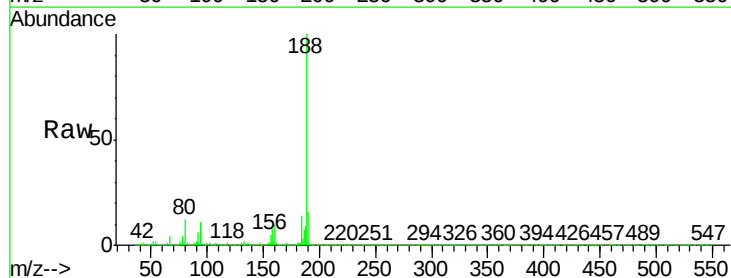
Manual Integrations  
APPROVED

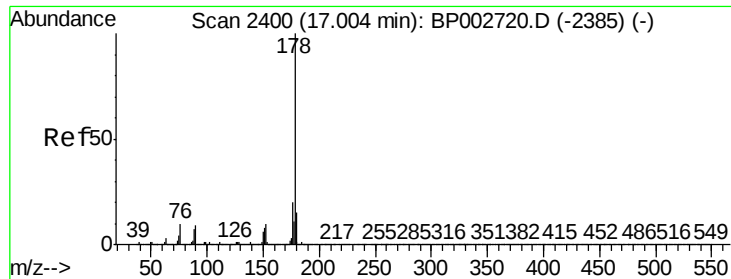
mohammad  
7/17/2020 12:30:43 PM



#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 16.97 min Scan# 2394  
Delta R.T. -0.00 min  
Lab File: BP002782.D  
Acq: 16 Jul 2020 20:45

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 10.9  | 8.1   | 12.1  |
| 80      | 11.9  | 8.9   | 13.3  |





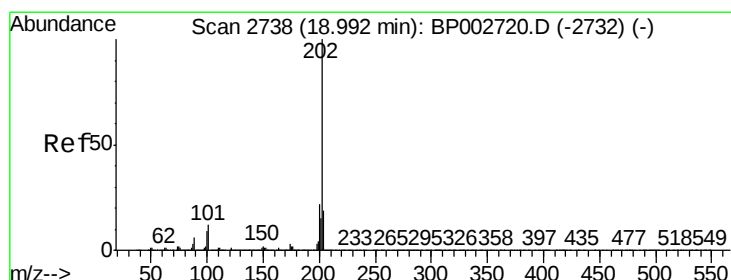
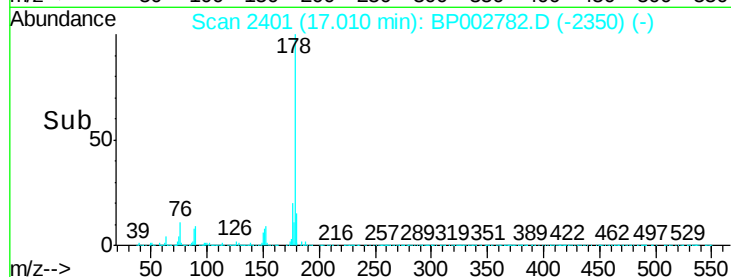
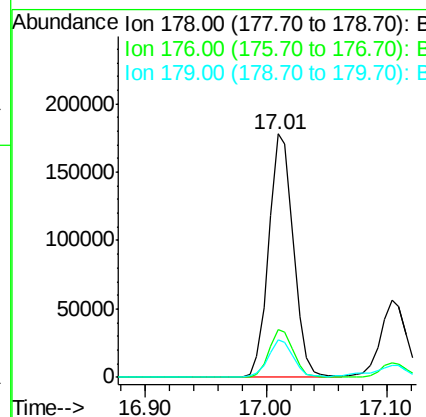
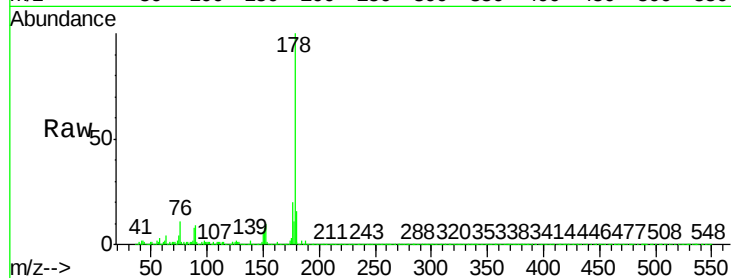
#71  
Phenanthrene  
Concen: 5.270 ng  
RT: 17.01 min Scan# 2401  
Delta R.T. -0.00 min  
Lab File: BP002782.D  
Acq: 16 Jul 2020 20:45

Instrument :  
BNA\_P  
ClientSampleId :  
EO-01-071520

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 19.9  | 15.9  | 23.9  |
| 179     | 15.6  | 12.3  | 18.5  |

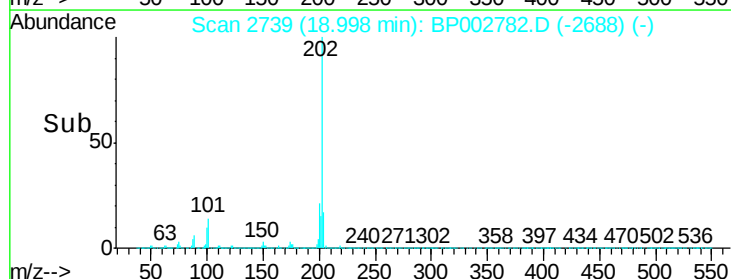
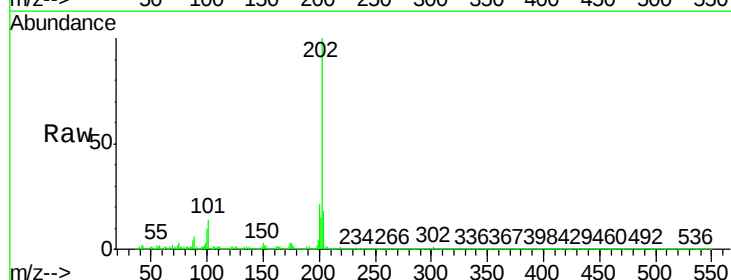
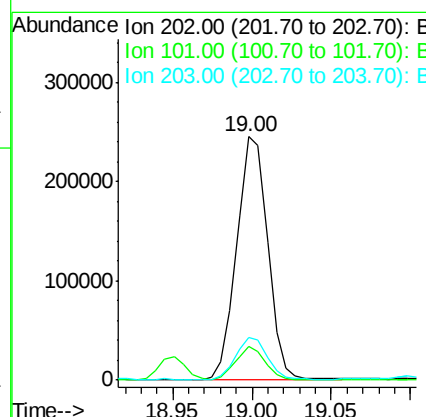
Manual Integrations  
APPROVED

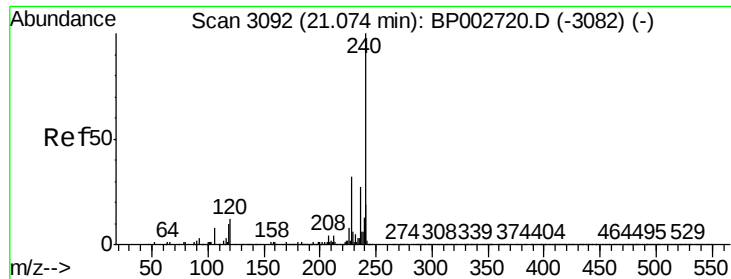
mohammad  
7/17/2020 12:30:43 PM



#75  
Fluoranthene  
Concen: 6.044 ng  
RT: 19.00 min Scan# 2739  
Delta R.T. -0.00 min  
Lab File: BP002782.D  
Acq: 16 Jul 2020 20:45

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 13.6  | 0.0   | 32.5  |
| 203     | 17.5  | 0.0   | 38.6  |





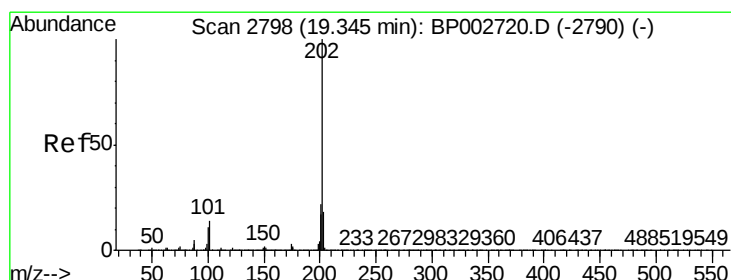
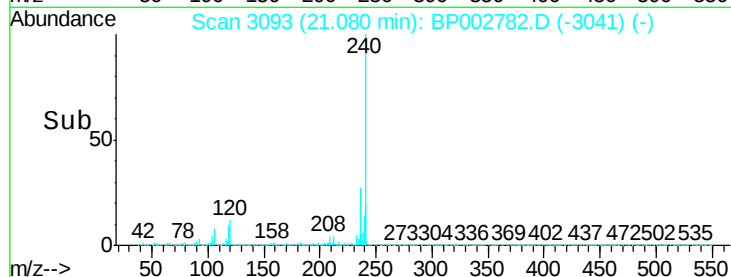
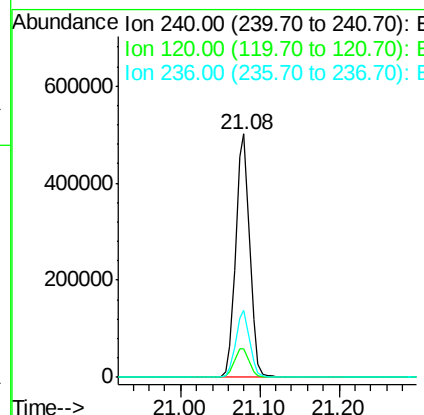
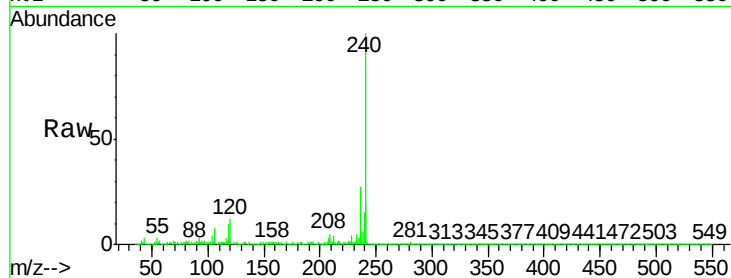
#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.08 min Scan# 3093  
Delta R.T. 0.01 min  
Lab File: BP002782.D  
Acq: 16 Jul 2020 20:45

Instrument :  
BNA\_P  
ClientSampleId :  
EO-01-071520

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 11.8  | 9.4   | 14.2  |
| 236     | 27.3  | 21.3  | 31.9  |

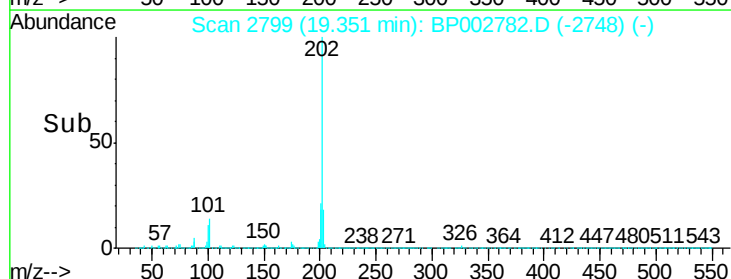
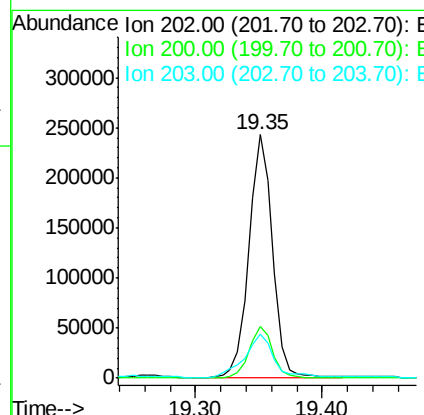
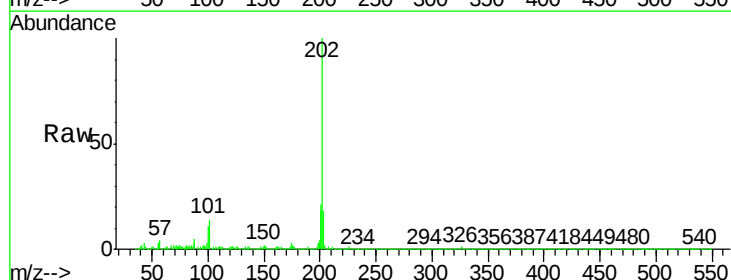
Manual Integrations  
APPROVED

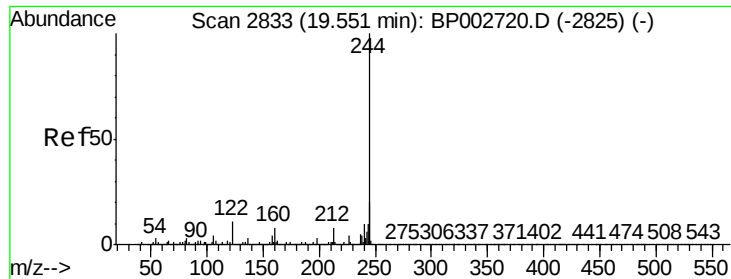
mohammad  
7/17/2020 12:30:43 PM



#78  
Pyrene  
Concen: 7.382 ng  
RT: 19.35 min Scan# 2799  
Delta R.T. -0.00 min  
Lab File: BP002782.D  
Acq: 16 Jul 2020 20:45

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 21.3  | 17.7  | 26.5  |
| 203     | 18.2  | 14.5  | 21.7  |





#79

Terphenyl-d14

Concen: 11.504 ng

RT: 19.56 min Scan# 2834

Delta R.T. -0.00 min

Lab File: BP002782.D

Acq: 16 Jul 2020 20:45

Instrument :

BNA\_P

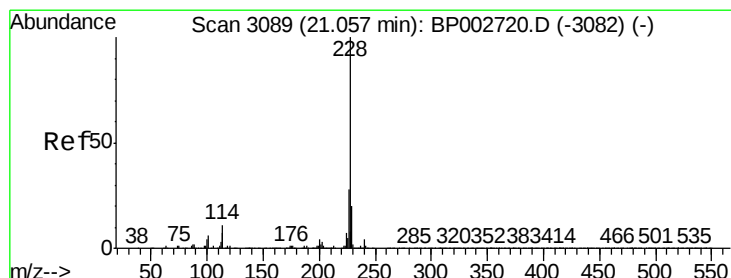
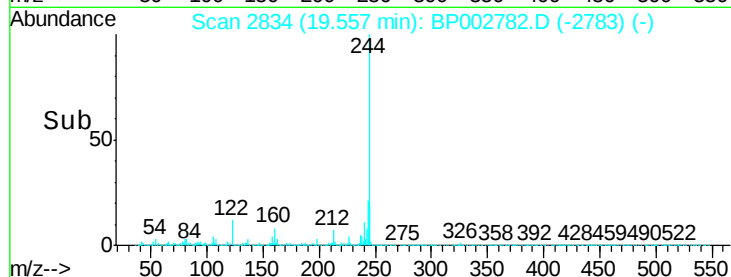
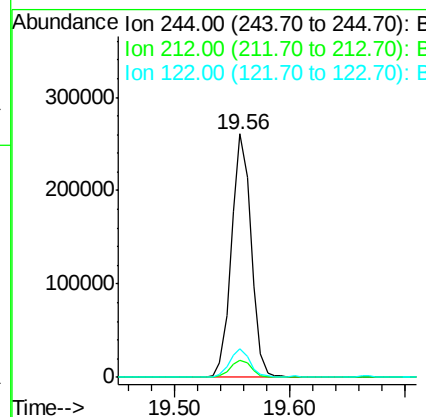
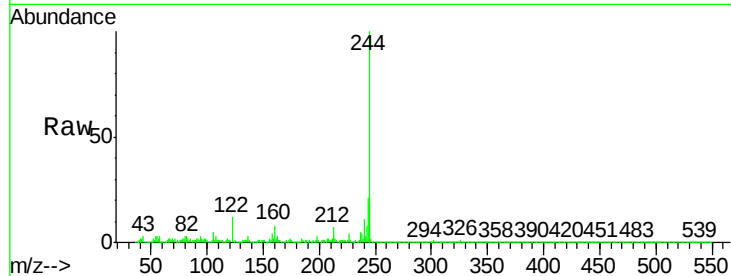
ClientSampleId :

EO-01-071520

|           |      |       |        |
|-----------|------|-------|--------|
| Tot Ion:  | 244  | Resp: | 306691 |
| Ion Ratio |      | Lower | Upper  |
| 244       | 100  |       |        |
| 212       | 7.0  | 6.0   | 9.0    |
| 122       | 11.8 | 8.9   | 13.3   |

Manual Integrations  
APPROVED

mohammad  
7/17/2020 12:30:43 PM



#81

Benzo(a)anthracene

Concen: 3.313 ng

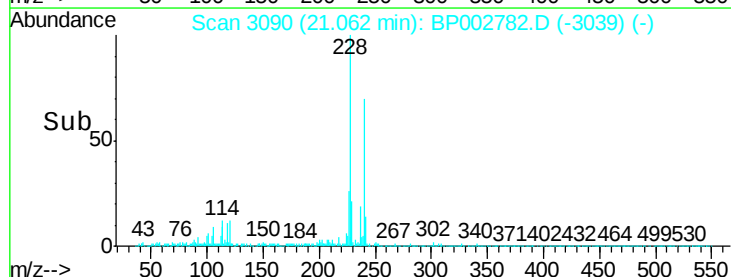
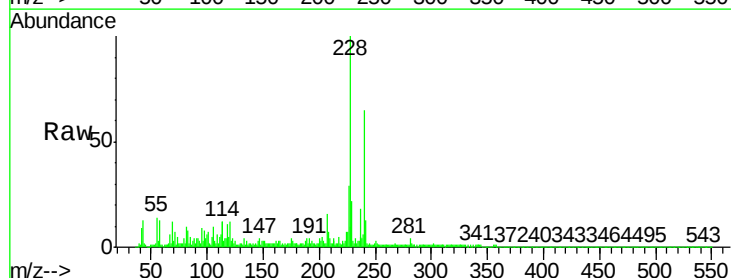
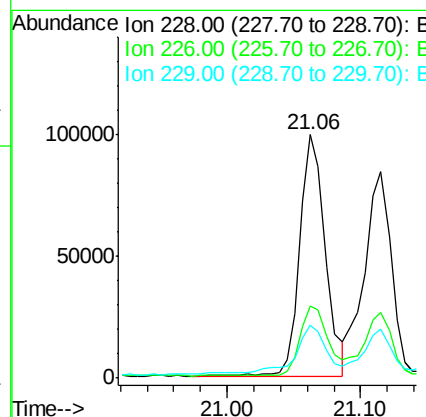
RT: 21.06 min Scan# 3090

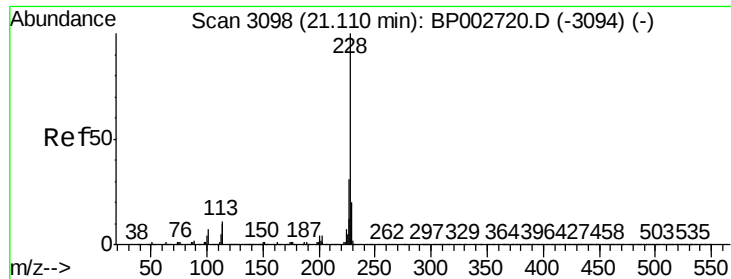
Delta R.T. -0.00 min

Lab File: BP002782.D

Acq: 16 Jul 2020 20:45

|           |      |       |        |
|-----------|------|-------|--------|
| Tgt Ion:  | 228  | Resp: | 131074 |
| Ion Ratio |      | Lower | Upper  |
| 228       | 100  |       |        |
| 226       | 29.4 | 22.6  | 34.0   |
| 229       | 22.0 | 16.0  | 24.0   |





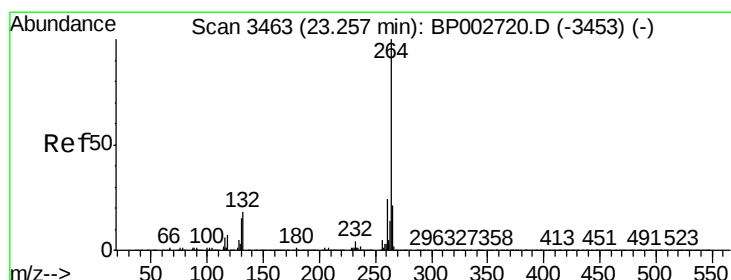
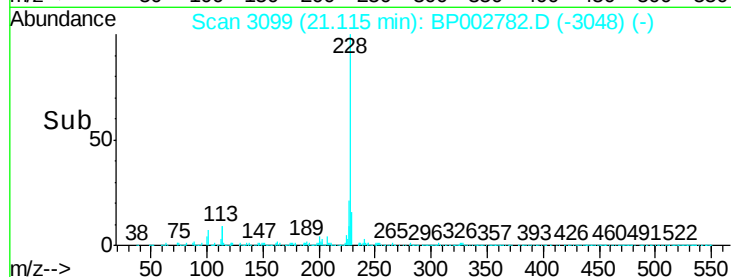
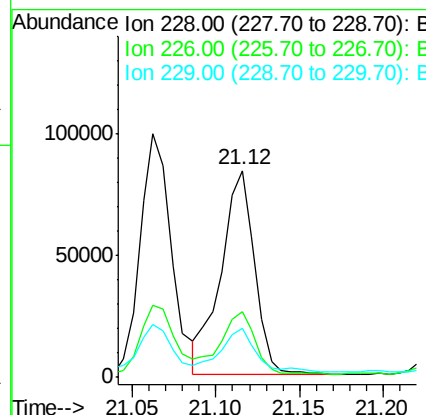
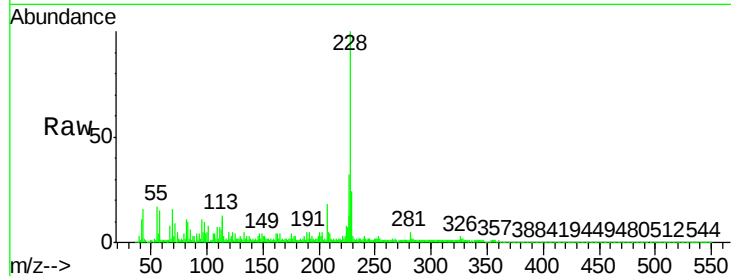
#83  
Chrysene  
Concen: 3.160 ng/mL  
RT: 21.12 min Scan# 3099  
Delta R.T. -0.00 min  
Lab File: BP002782.D  
Acq: 16 Jul 2020 20:45

Instrument :  
BNA\_P  
ClientSampleID :  
EO-01-071520

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 228   | Resp: | 119027 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 31.7  | 24.6  | 37.0   |
| 229       | 23.6  | 15.7  | 23.5   |

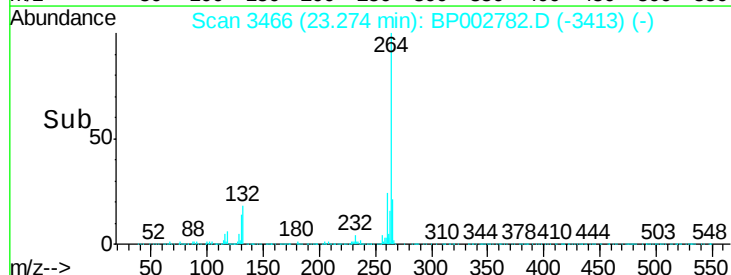
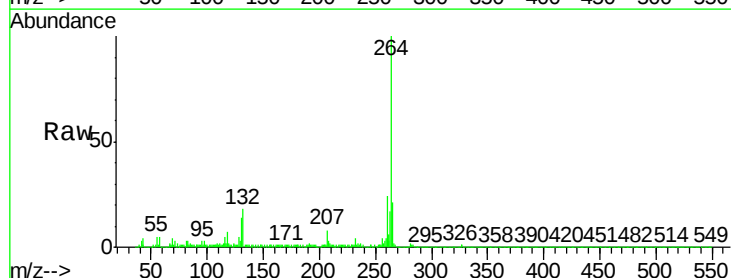
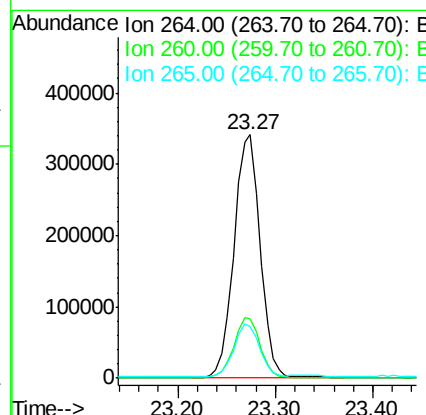
Manual Integrations  
APPROVED

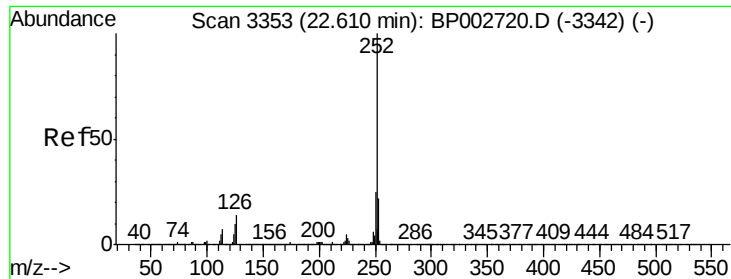
mohammad  
7/17/2020 12:30:43 PM



#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 23.27 min Scan# 3466  
Delta R.T. 0.01 min  
Lab File: BP002782.D  
Acq: 16 Jul 2020 20:45

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 264   | Resp: | 629162 |
| Ion Ratio | Lower | Upper |        |
| 264       | 100   |       |        |
| 260       | 24.2  | 19.3  | 28.9   |
| 265       | 21.4  | 16.8  | 25.2   |





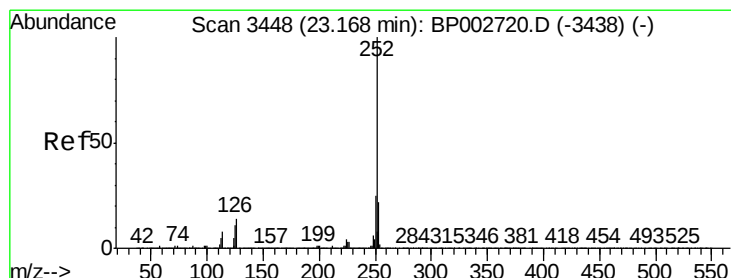
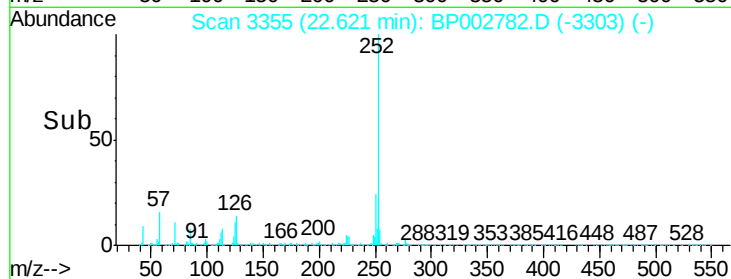
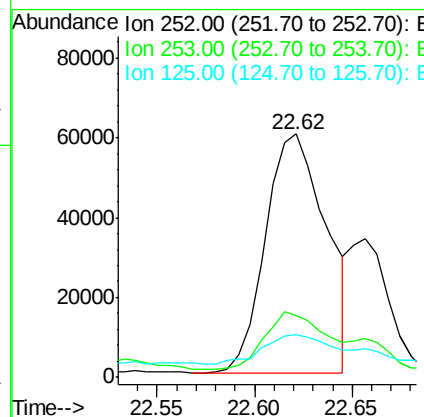
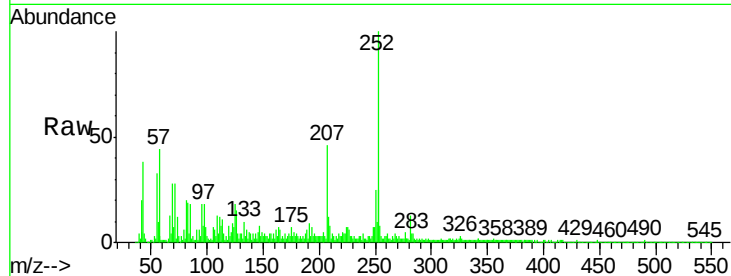
#88  
Benzo(b)fluoranthene  
Concen: 3.329 ng  
RT: 22.62 min Scan# 3353  
Delta R.T. 0.01 min  
Lab File: BP002782.D  
Acq: 16 Jul 2020 20:45

Instrument :  
BNA\_P  
ClientSampleId :  
EO-01-071520

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 25.4  | 17.7  | 26.5  |
| 125     | 17.7  | 8.2   | 12.2  |

Manual Integrations  
APPROVED

mohammad  
7/17/2020 12:30:43 PM



#90  
Benzo(a)pyrene  
Concen: 2.644 ng  
RT: 23.17 min Scan# 3449  
Delta R.T. -0.00 min  
Lab File: BP002782.D  
Acq: 16 Jul 2020 20:45

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 25.0  | 17.6  | 26.4  |
| 125     | 17.3  | 8.6   | 13.0  |

