

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE070219\  
 Data File : BE100301.D  
 Acq On : 2 Jul 2019 14:25  
 Operator : JU/SJ  
 Sample : K3504-14  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 PST-013-B038-062019

Manual Integrations  
 APPROVED

mohammad  
 7/3/2019 10:48:26 PM

Quant Time: Jul 03 03:17:55 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE062819.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jun 28 14:06:53 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.64  | 152  | 853      | 0.40 | ng    | 0.00     |
| 7) Naphthalene-d8         | 10.43 | 136  | 2791     | 0.40 | ng    | -0.01    |
| 13) Acenaphthene-d10      | 14.31 | 164  | 2176     | 0.40 | ng    | 0.00     |
| 19) Phenanthrene-d10      | 17.07 | 188  | 6711     | 0.40 | ng    | 0.01     |
| 27) Chrysene-d12          | 21.25 | 240  | 8968     | 0.40 | ng    | 0.00     |
| 34) Perylene-d12          | 23.67 | 264  | 11286    | 0.40 | ng    | 0.01     |

|                             |       |     |       |      |    |       |
|-----------------------------|-------|-----|-------|------|----|-------|
| System Monitoring Compounds |       |     |       |      |    |       |
| 4) 2-Fluorophenol           | 5.22  | 112 | 678   | 0.31 | ng | 0.00  |
| 5) Phenol-d6                | 6.82  | 99  | 852   | 0.30 | ng | -0.01 |
| 8) Nitrobenzene-d5          | 8.82  | 82  | 671   | 0.24 | ng | 0.00  |
| 11) 2-Methylnaphthalene-d10 | 12.05 | 152 | 1338  | 0.25 | ng | 0.00  |
| 14) 2,4,6-Tribromophenol    | 15.82 | 330 | 420   | 0.28 | ng | 0.00  |
| 15) 2-Fluorobiphenyl        | 12.94 | 172 | 1982  | 0.23 | ng | 0.00  |
| 25) Fluoranthene-d10        | 19.10 | 212 | 20479 | 0.21 | ng | 0.00  |
| 29) Terphenyl-d14           | 19.70 | 244 | 4162  | 0.22 | ng | 0.00  |

|                                |       |     |       |        |    |      |
|--------------------------------|-------|-----|-------|--------|----|------|
| Target Compounds               |       |     |       | Qvalue |    |      |
| 9) Naphthalene                 | 10.49 | 128 | 2993  | 0.097  | ng | # 95 |
| 12) 2-Methylnaphthalene        | 12.12 | 142 | 195   | 0.036  | ng | # 87 |
| 16) Acenaphthylene             | 14.04 | 152 | 936   | 0.090  | ng | 99   |
| 18) Fluorene                   | 15.37 | 166 | 366   | 0.042  | ng | # 93 |
| 23) Phenanthrene               | 17.11 | 178 | 7148  | 0.439  | ng | 99   |
| 24) Anthracene                 | 17.20 | 178 | 840   | 0.057  | ng | # 95 |
| 26) Fluoranthene               | 19.13 | 202 | 15512 | 0.599  | ng | 99   |
| 28) Pyrene                     | 19.49 | 202 | 15652 | 0.659  | ng | 97   |
| 30) Benzo(a)anthracene         | 21.23 | 228 | 10453 | 0.354  | ng | 96   |
| 31) Chrysene                   | 21.28 | 228 | 12512 | 0.423  | ng | 96   |
| 32) Bis(2-ethylhexyl)phthalate | 21.15 | 149 | 10497 | 0.194  | ng | # 99 |
| 33) Indeno(1,2,3-cd)pyrene     | 26.23 | 276 | 8508  | 0.217  | ng | 99   |
| 35) Benzo(b)fluoranthene       | 22.93 | 252 | 16462 | 0.538  | ng | 97   |
| 36) Benzo(k)fluoranthene       | 22.98 | 252 | 6840m | 0.200  | ng |      |
| 37) Benzo(a)pyrene             | 23.56 | 252 | 10941 | 0.357  | ng | 97   |
| 38) Dibenzo(a,h)anthracene     | 26.24 | 278 | 2243  | 0.070  | ng | # 61 |
| 39) Benzo(a,h,i)perylene       | 27.02 | 276 | 8635  | 0.262  | ng | # 96 |

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

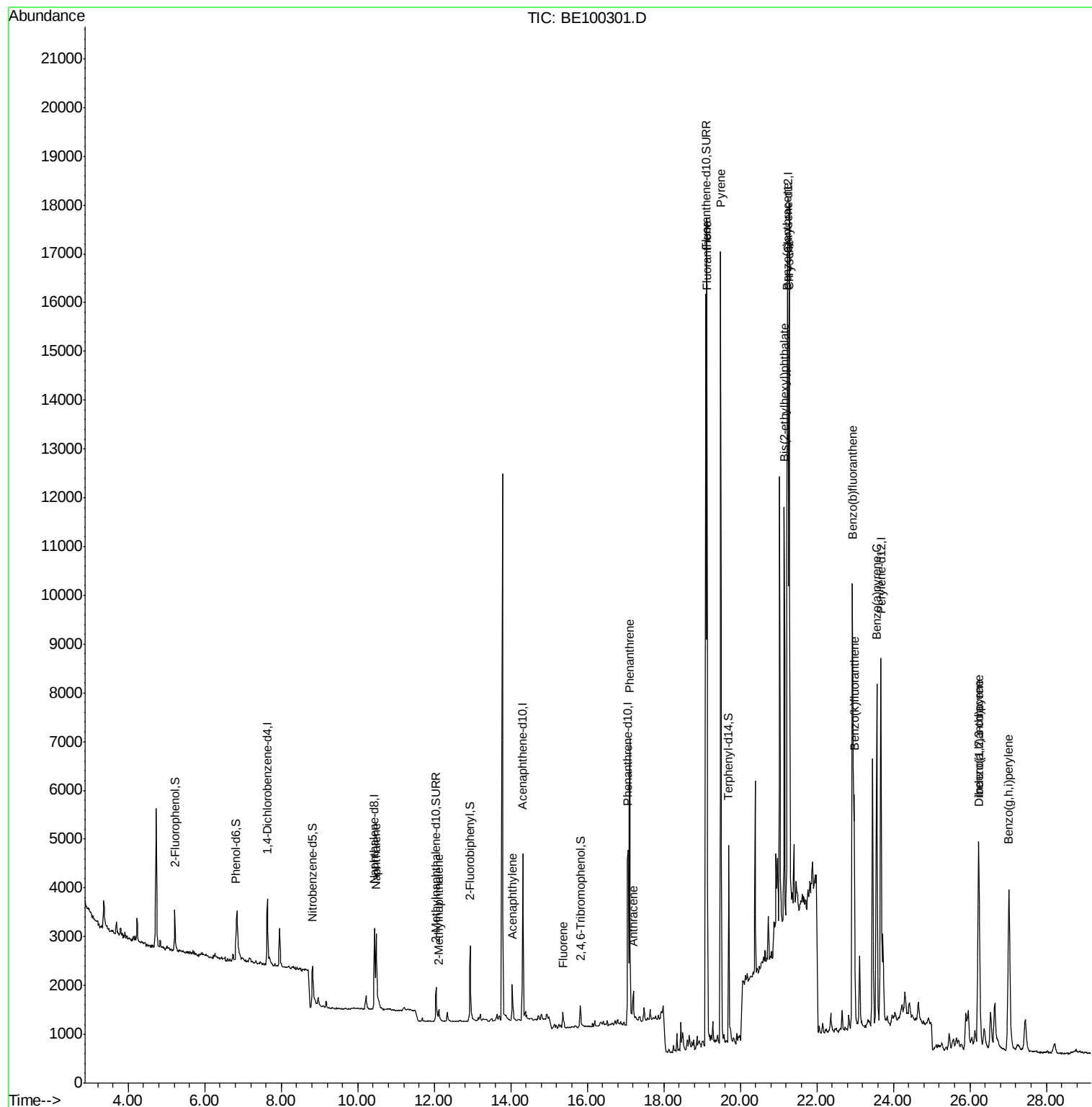
Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE070219\  
Data File : BE100301.D  
Acq On : 2 Jul 2019 14:25  
Operator : JU/SJ  
Sample : K3504-14  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
BNA\_E  
ClientSampleId :  
PST-013-B038-062019

Manual Integrations  
APPROVED

mohammad  
7/3/2019 10:48:26 PM

Quant Time: Jul 03 03:17:55 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE062819.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Jun 28 14:06:53 2019  
Response via : Initial Calibration





#1

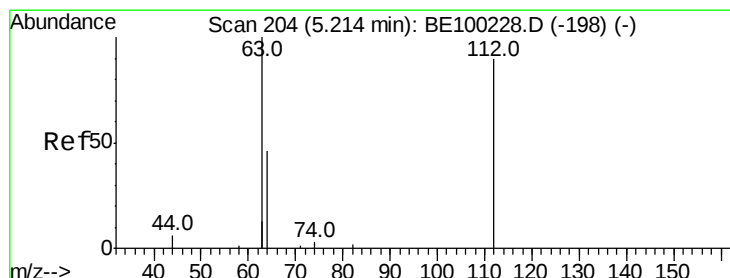
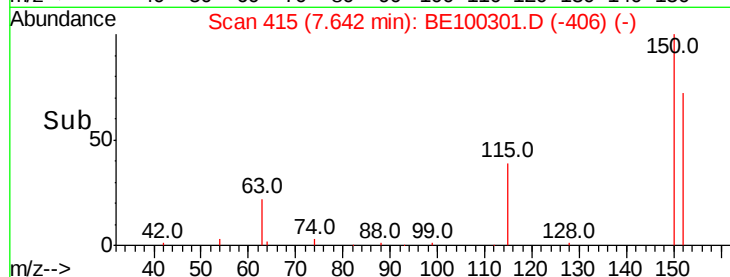
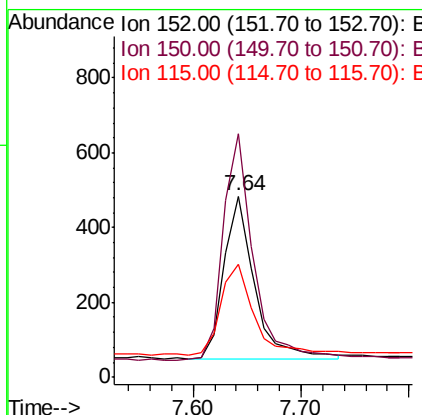
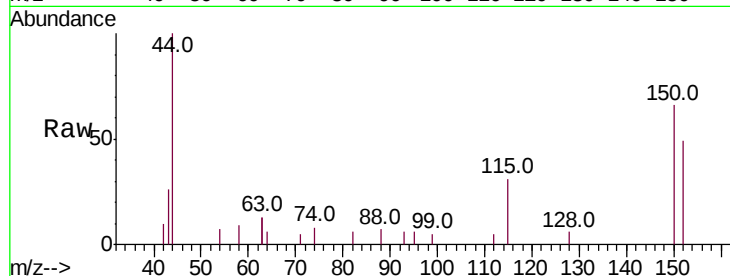
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.64 min Scan# 415  
Delta R.T. -0.00 min  
Lab File: BE100301.D  
Acq: 2 Jul 2019 14:25

Instrument :  
BNA\_E  
ClientSampleId :  
PST-013-B038-062019

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 134.5 | 114.5 | 171.7 |
| 115     | 62.2  | 57.1  | 85.7  |

Manual Integrations  
APPROVED

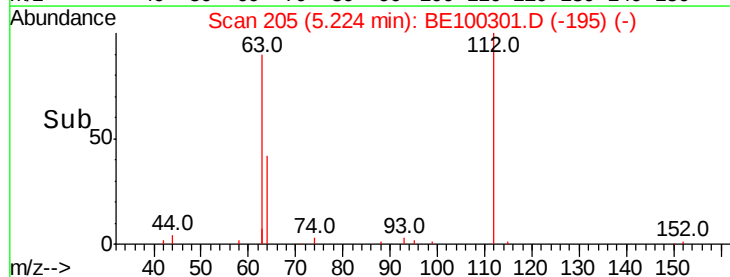
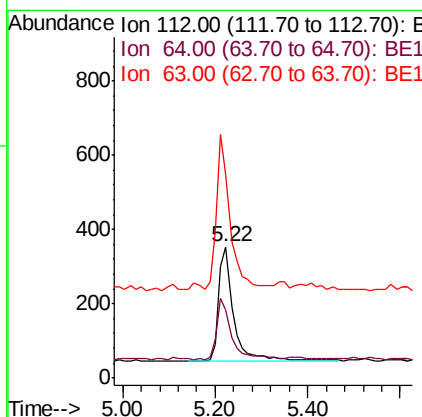
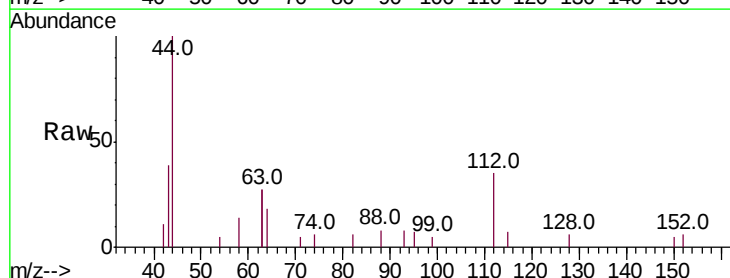
mohammad  
7/3/2019 10:48:26 PM

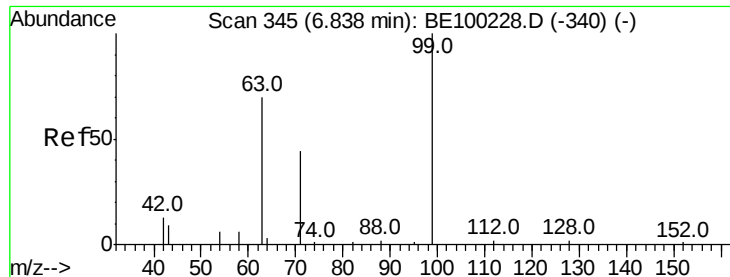


#4

2-Fluorophenol  
Concen: 0.312 ng  
RT: 5.22 min Scan# 205  
Delta R.T. 0.01 min  
Lab File: BE100301.D  
Acq: 2 Jul 2019 14:25

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 53.2  | 39.4  | 59.0  |
| 63      | 124.5 | 104.5 | 156.7 |





#5

Phenol-d6

Concen: 0.298 ng

RT: 6.82 min Scan# 344

Delta R.T. -0.01 min

Lab File: BE100301.D

Acq: 2 Jul 2019 14:25

Instrument :

BNA\_E

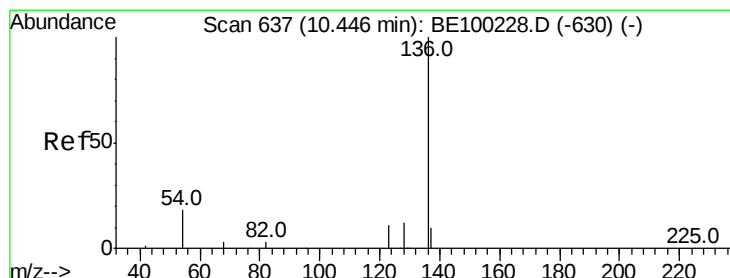
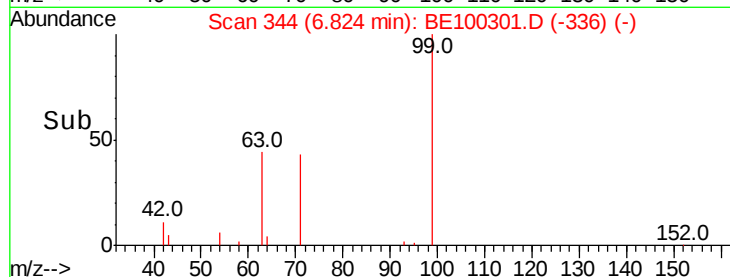
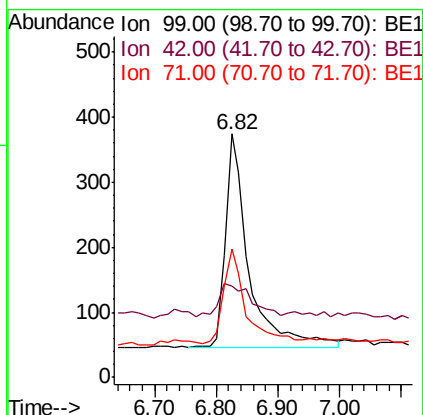
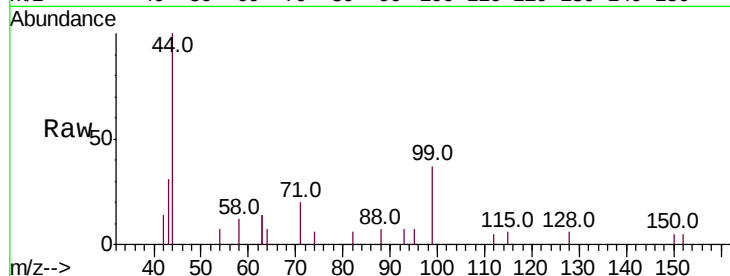
ClientSampleId :

PST-013-B038-062019

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 99    | Resp: | 852   |
| Ion Ratio | Lower | Upper |       |
| 99        | 100   |       |       |
| 42        | 21.2  | 11.2  | 16.8# |
| 71        | 42.7  | 37.2  | 55.8  |

Manual Integrations  
APPROVED

mohammad  
7/3/2019 10:48:26 PM



#7

Naphthalene-d8

Concen: 0.400 ng

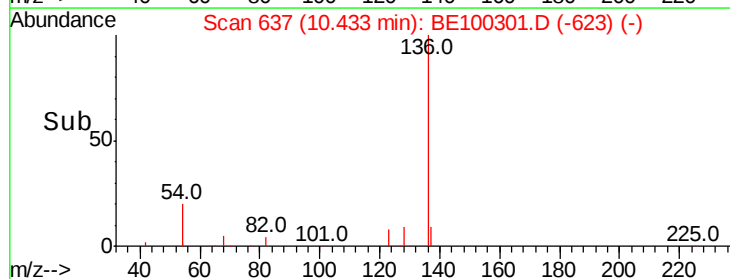
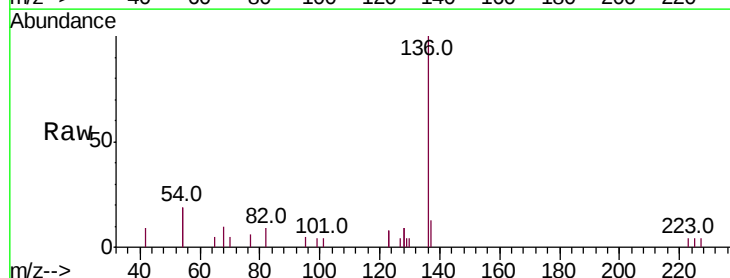
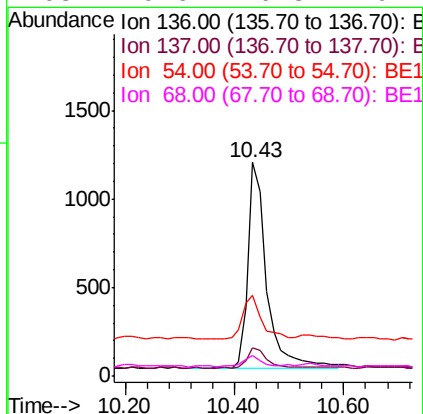
RT: 10.43 min Scan# 637

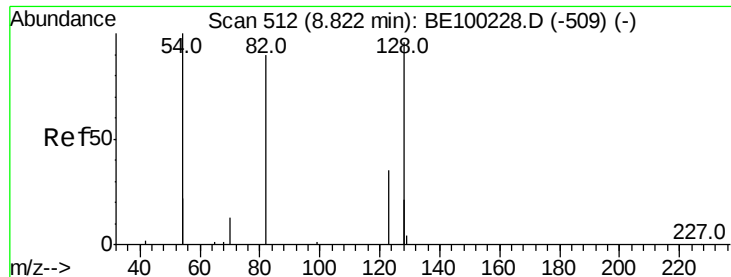
Delta R.T. -0.01 min

Lab File: BE100301.D

Acq: 2 Jul 2019 14:25

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 136   | Resp: | 2791 |
| Ion Ratio | Lower | Upper |      |
| 136       | 100   |       |      |
| 137       | 12.9  | 11.8  | 17.8 |
| 54        | 37.6  | 27.7  | 41.5 |
| 68        | 9.6   | 6.8   | 10.2 |





#8

Nitrobenzene-d5

Concen: 0.242 ng

RT: 8.82 min Scan# 513

Delta R.T. 0.00 min

Lab File: BE100301.D

Acq: 2 Jul 2019 14:25

Instrument :

BNA\_E

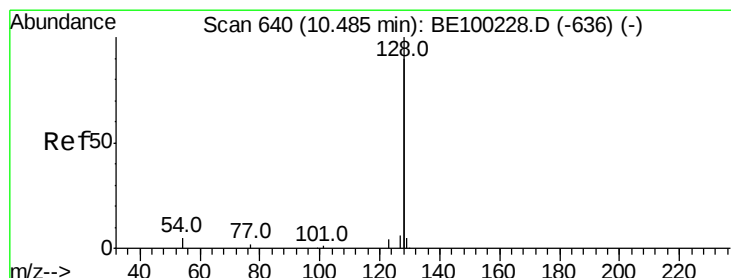
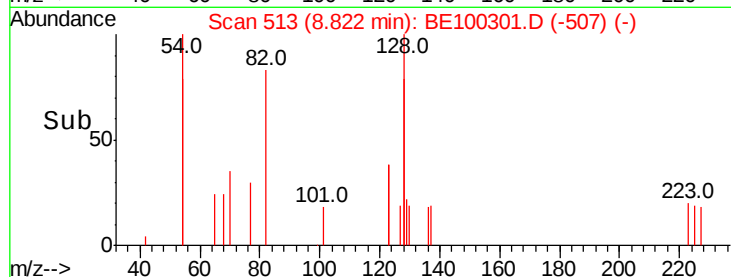
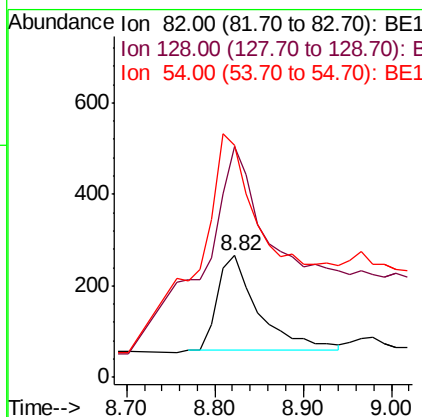
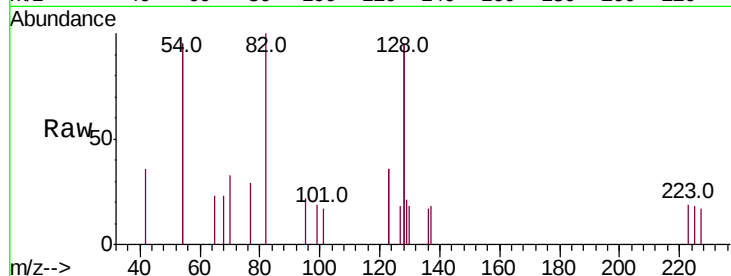
ClientSampleId :

PST-013-B038-062019

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 82    | Resp: | 671   |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 189.5 | 140.9 | 211.3 |
| 54       | 190.2 | 146.2 | 219.2 |

Manual Integrations  
APPROVED

mohammad  
7/3/2019 10:48:26 PM



#9

Naphthalene

Concen: 0.097 ng

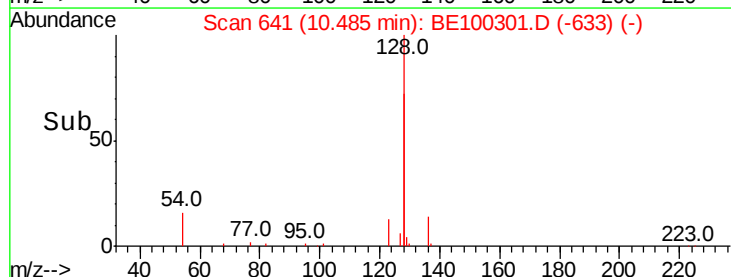
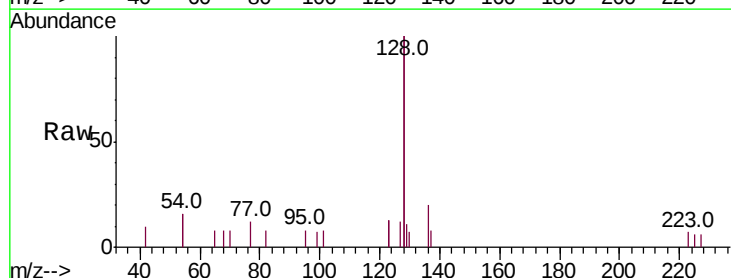
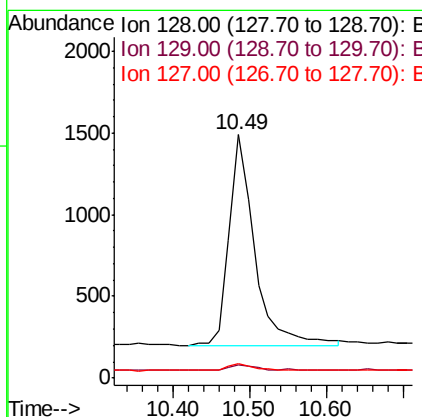
RT: 10.49 min Scan# 641

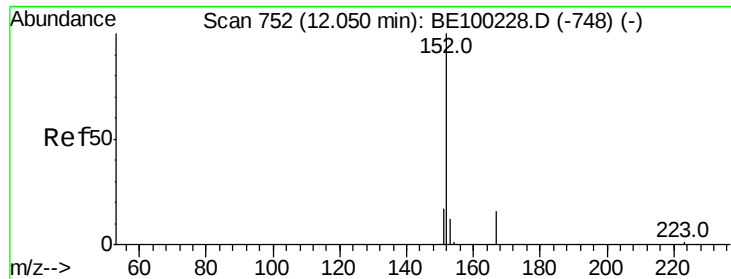
Delta R.T. 0.00 min

Lab File: BE100301.D

Acq: 2 Jul 2019 14:25

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 2993  |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 129      | 5.6   | 3.0   | 4.6#  |
| 127      | 6.2   | 3.5   | 5.3#  |





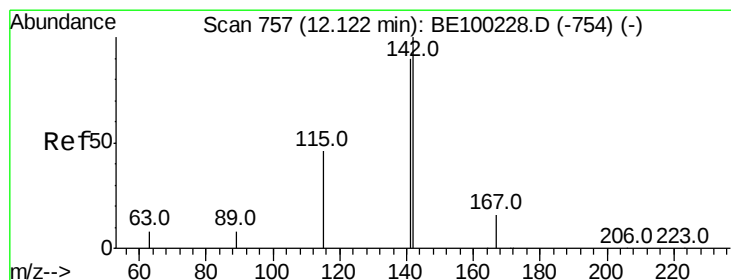
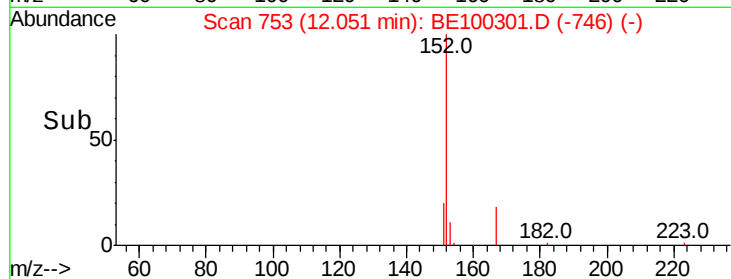
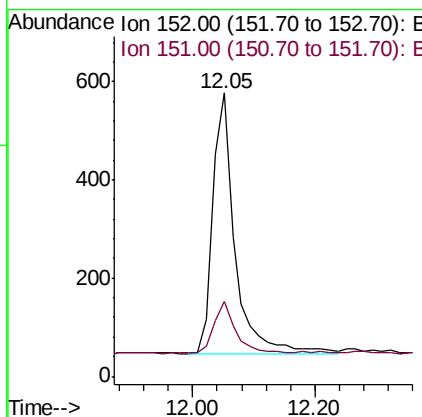
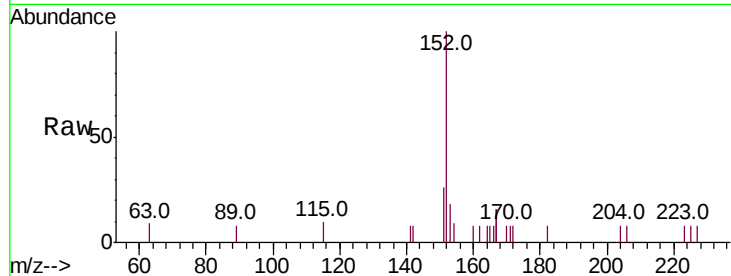
#11  
2-Methylnaphthalene-d10  
Concen: 0.255 ng  
RT: 12.05 min Scan# 753  
Delta R.T. 0.00 min  
Lab File: BE100301.D  
Acq: 2 Jul 2019 14:25

Instrument :  
BNA\_E  
ClientSampleId :  
PST-013-B038-062019

Tot Ion:152 Resp: 1338  
Ion Ratio Lower Upper  
152 100  
151 19.1 15.1 22.7

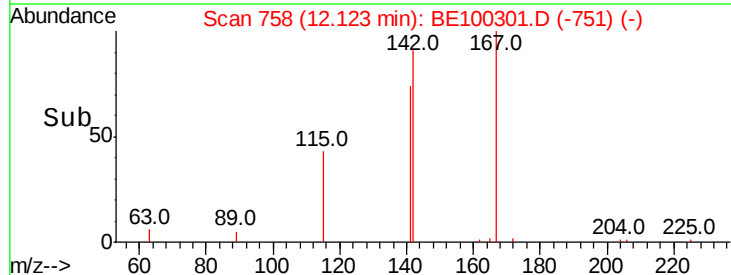
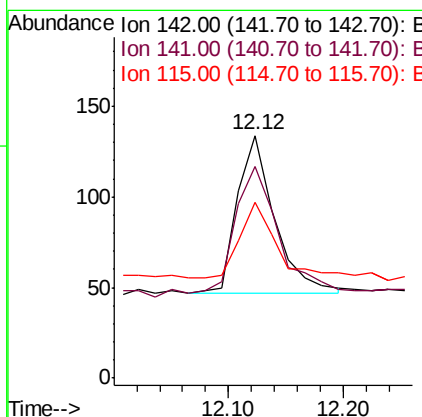
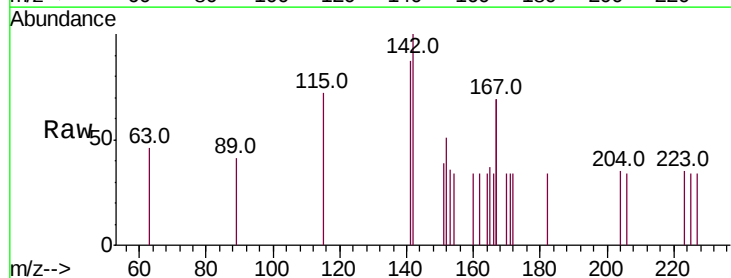
Manual Integrations  
APPROVED

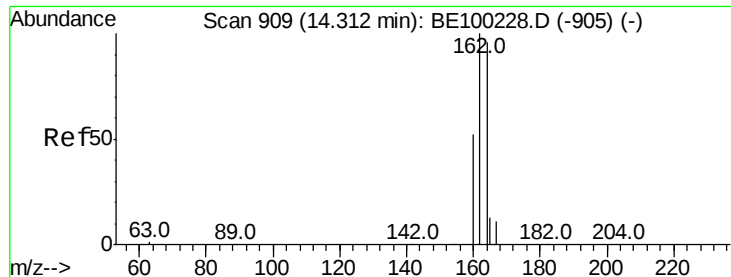
mohammad  
7/3/2019 10:48:26 PM



#12  
2-Methylnaphthalene  
Concen: 0.036 ng  
RT: 12.12 min Scan# 758  
Delta R.T. 0.00 min  
Lab File: BE100301.D  
Acq: 2 Jul 2019 14:25

Tgt Ion:142 Resp: 195  
Ion Ratio Lower Upper  
142 100  
141 87.3 72.4 108.6  
115 72.4 40.4 60.6#





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.31 min Scan# 910

Delta R.T. 0.00 min

Lab File: BE100301.D

Acq: 2 Jul 2019 14:25

Instrument :

BNA\_E

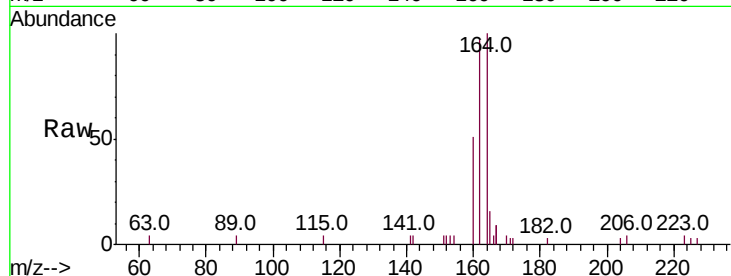
ClientSampleId :

PST-013-B038-062019

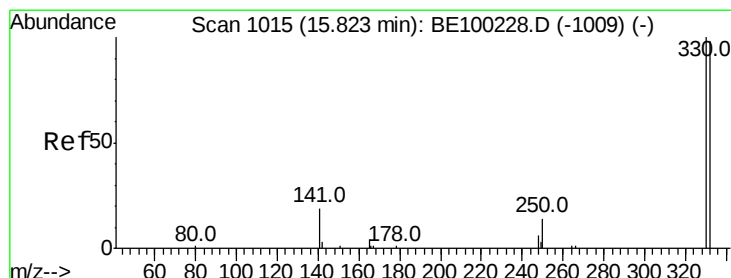
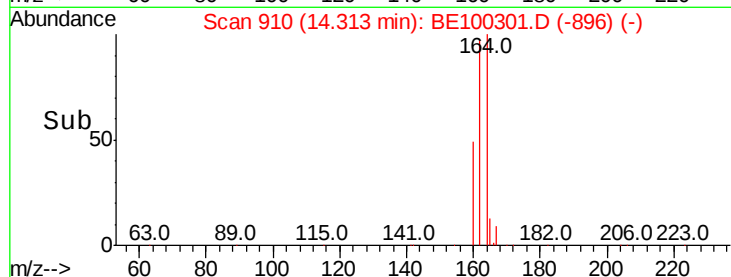
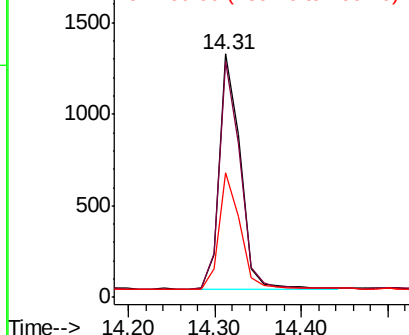
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 164   | Resp: | 2176  |
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 162      | 96.7  | 83.4  | 125.0 |
| 160      | 51.0  | 45.0  | 67.6  |

Manual Integrations  
APPROVED

mohammad  
7/3/2019 10:48:26 PM



Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E



#14

2,4,6-Tribromophenol

Concen: 0.276 ng

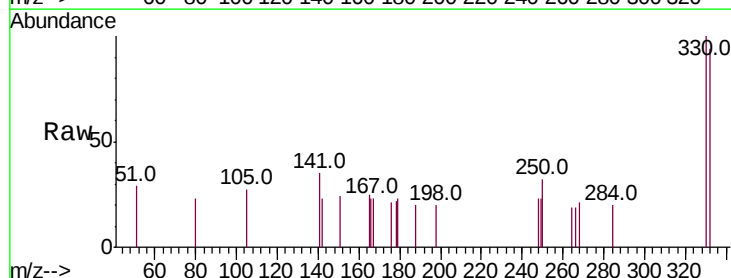
RT: 15.82 min Scan# 1016

Delta R.T. -0.00 min

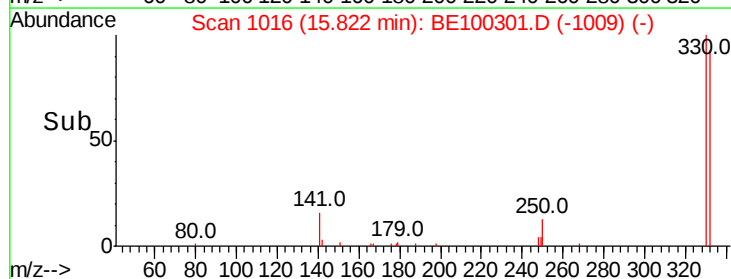
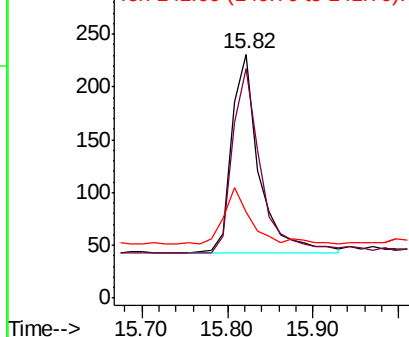
Lab File: BE100301.D

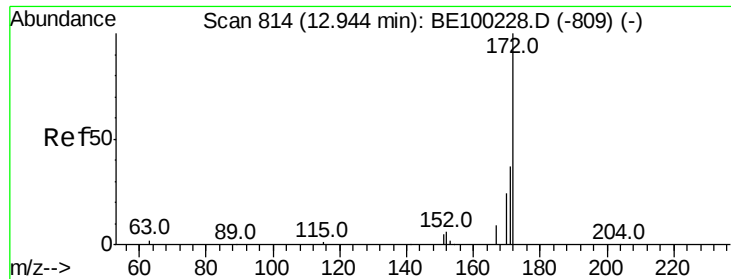
Acq: 2 Jul 2019 14:25

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 330   | Resp: | 420   |
| Ion      | Ratio | Lower | Upper |
| 330      | 100   |       |       |
| 332      | 98.1  | 77.0  | 115.4 |
| 141      | 28.6  | 22.0  | 33.0  |



Abundance Ion 330.00 (329.70 to 330.70): E  
Ion 331.80 (331.50 to 332.50): E  
Ion 141.00 (140.70 to 141.70): E





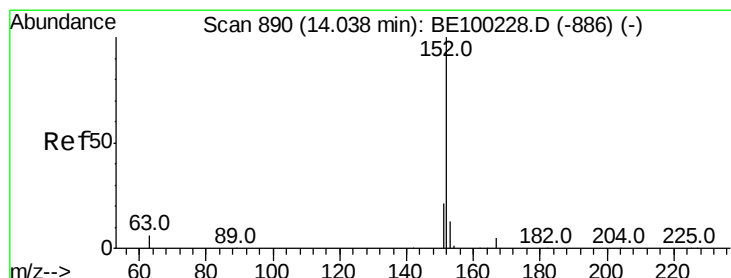
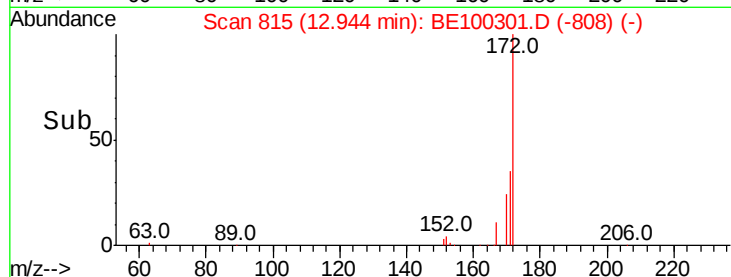
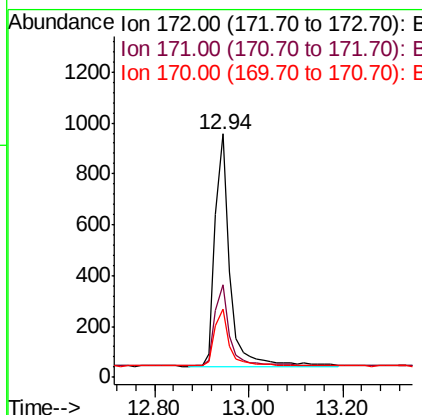
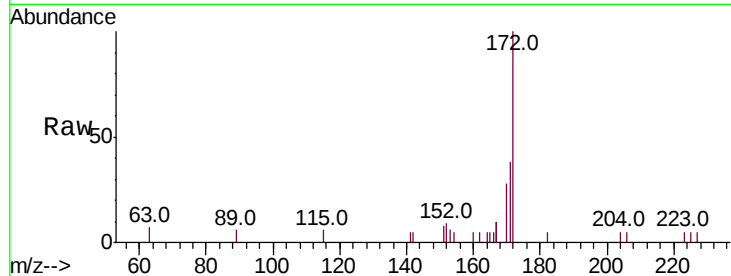
#15  
2-Fluorobiphenyl  
Concen: 0.234 ng  
RT: 12.94 min Scan# 815  
Delta R.T. 0.00 min  
Lab File: BE100301.D  
Acq: 2 Jul 2019 14:25

Instrument :  
BNA\_E  
ClientSampleId :  
PST-013-B038-062019

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 38.2  | 31.9  | 47.9  |
| 170     | 28.0  | 22.2  | 33.2  |

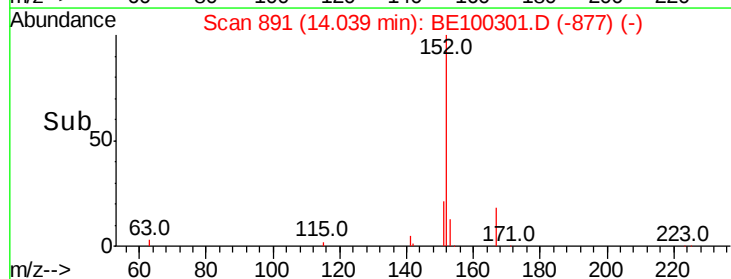
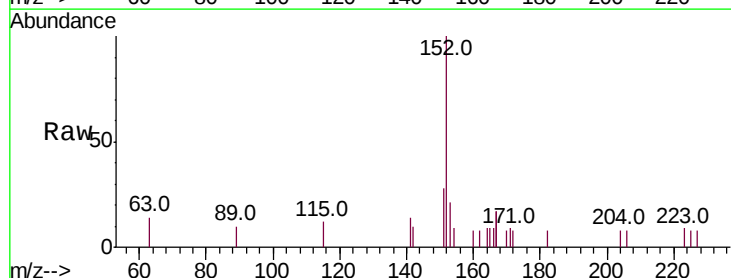
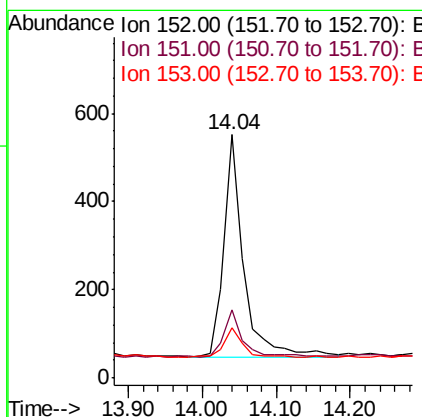
Manual Integrations  
APPROVED

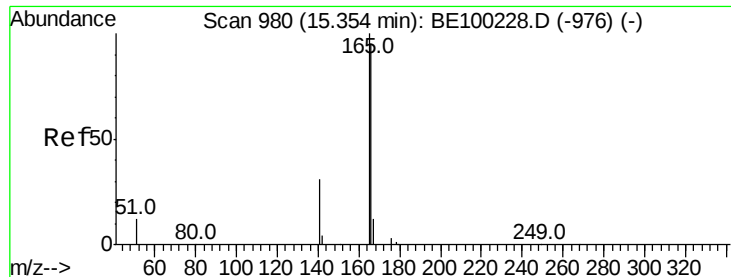
mohammad  
7/3/2019 10:48:26 PM



#16  
Acenaphthylene  
Concen: 0.090 ng  
RT: 14.04 min Scan# 891  
Delta R.T. 0.00 min  
Lab File: BE100301.D  
Acq: 2 Jul 2019 14:25

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 20.4  | 16.6  | 25.0  |
| 153     | 14.0  | 10.5  | 15.7  |





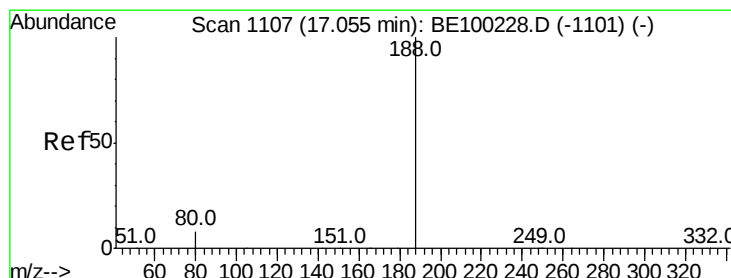
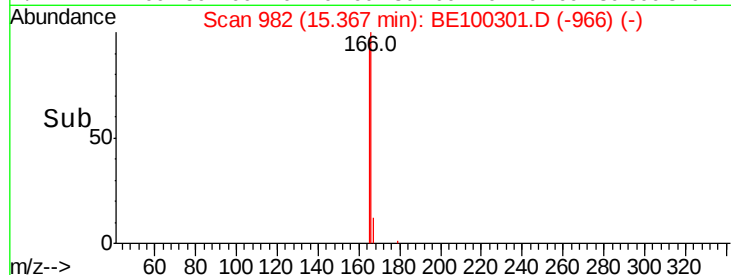
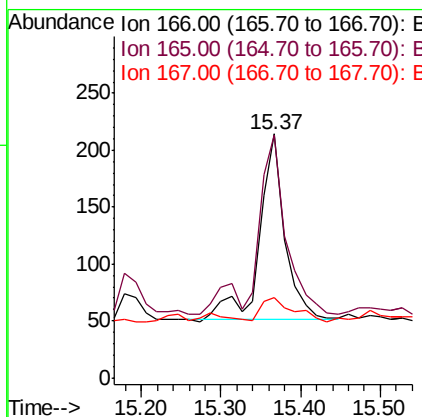
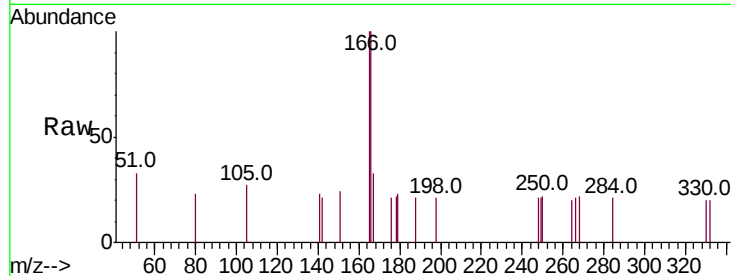
#18  
**Fluorene**  
 Concen: 0.042 ng  
 RT: 15.37 min Scan# 982  
 Delta R.T. 0.01 min  
 Lab File: BE100301.D  
 Acq: 2 Jul 2019 14:25

Instrument :  
 BNA\_E  
 ClientSampleId :  
 PST-013-B038-062019

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 94.8  | 81.1  | 121.7 |
| 167     | 16.1  | 10.7  | 16.1# |

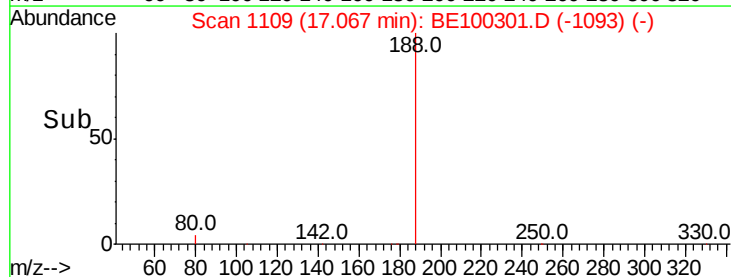
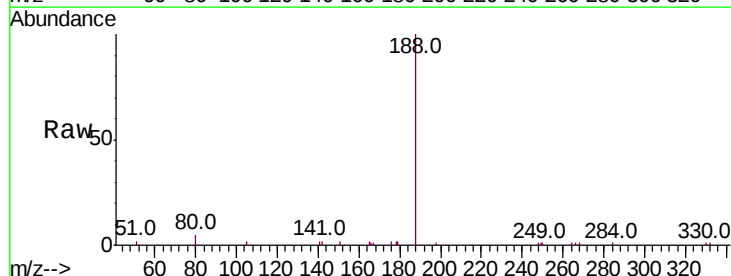
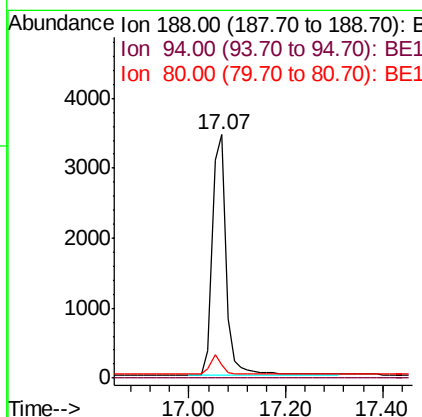
Manual Integrations  
 APPROVED

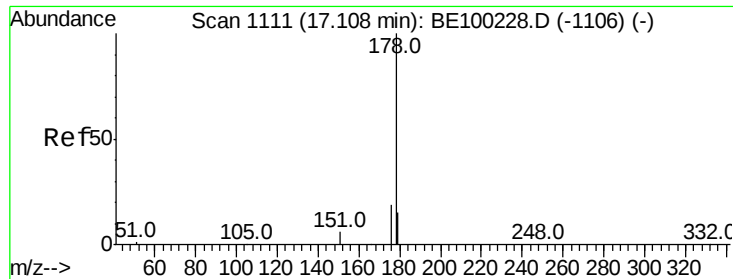
mohammad  
 7/3/2019 10:48:26 PM



#19  
**Phenanthrene-d10**  
 Concen: 0.400 ng  
 RT: 17.07 min Scan# 1109  
 Delta R.T. 0.01 min  
 Lab File: BE100301.D  
 Acq: 2 Jul 2019 14:25

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 0.0   | 0.0   | 0.0   |
| 80      | 5.3   | 7.6   | 11.4# |





#23

Phenanthrene

Concen: 0.439 ng

RT: 17.11 min Scan# 1112

Delta R.T. -0.00 min

Lab File: BE100301.D

Acq: 2 Jul 2019 14:25

Instrument :

BNA\_E

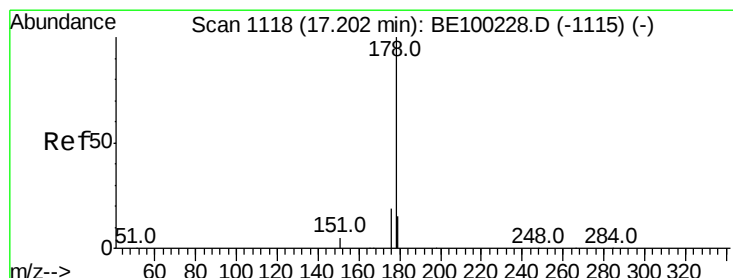
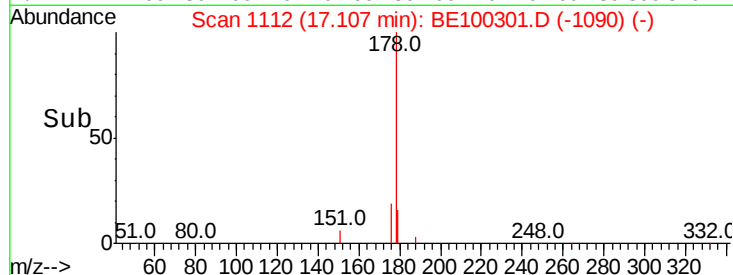
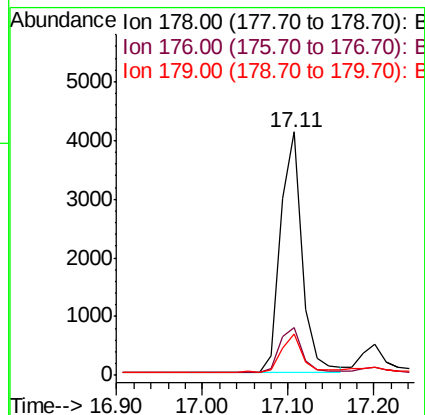
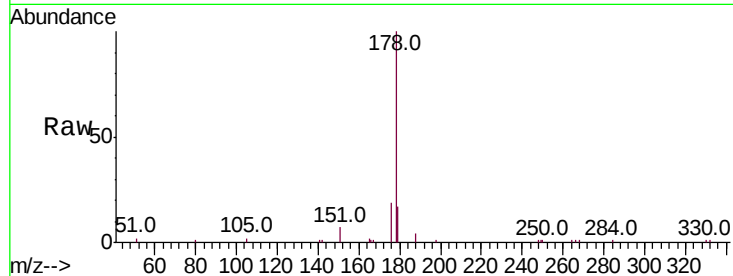
ClientSampleId :

PST-013-B038-062019

|             |       |           |
|-------------|-------|-----------|
| Tot Ion:178 | Resp: | 7148      |
| Ion Ratio   | Lower | Upper     |
| 178         | 100   |           |
| 176         | 19.3  | 15.9 23.9 |
| 179         | 15.5  | 12.2 18.2 |

Manual Integrations  
APPROVED

mohammad  
7/3/2019 10:48:26 PM



#24

Anthracene

Concen: 0.057 ng

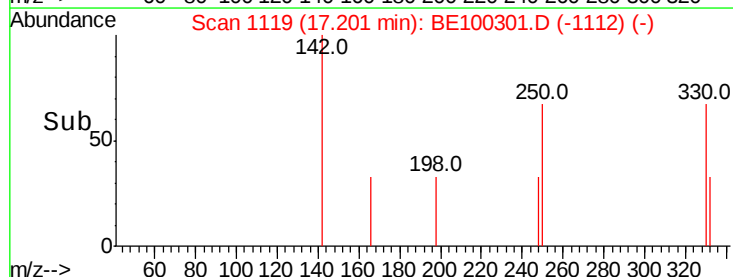
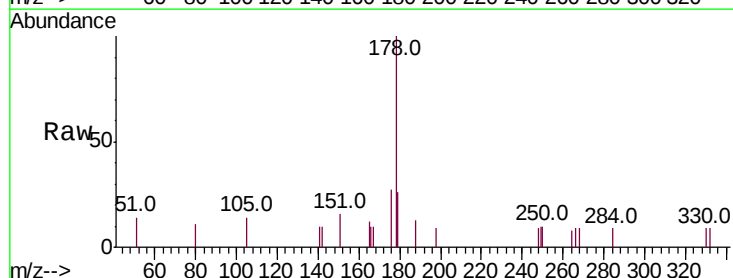
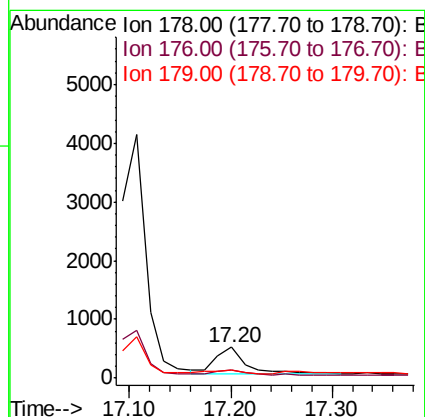
RT: 17.20 min Scan# 1119

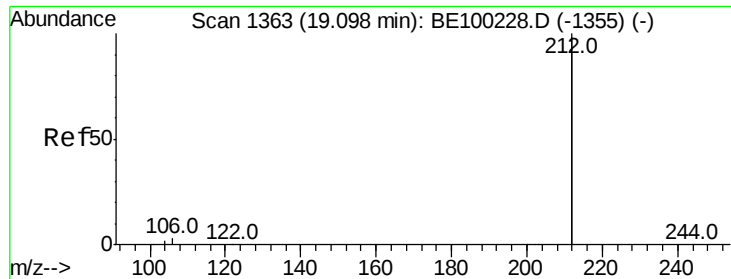
Delta R.T. -0.00 min

Lab File: BE100301.D

Acq: 2 Jul 2019 14:25

|             |       |            |
|-------------|-------|------------|
| Tgt Ion:178 | Resp: | 840        |
| Ion Ratio   | Lower | Upper      |
| 178         | 100   |            |
| 176         | 18.2  | 15.3 22.9  |
| 179         | 18.5  | 12.2 18.2# |





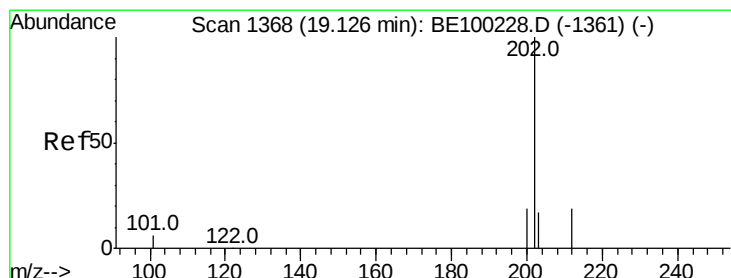
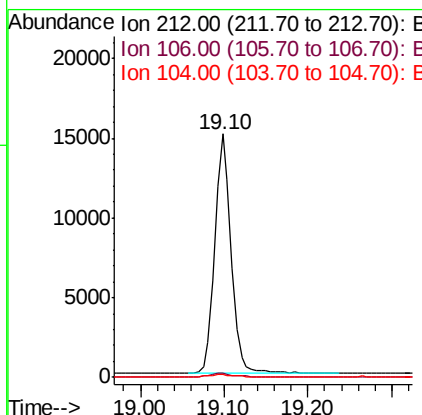
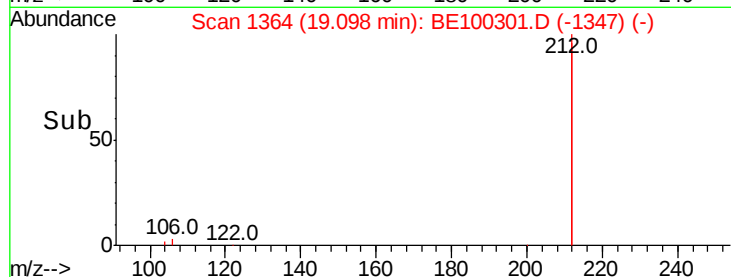
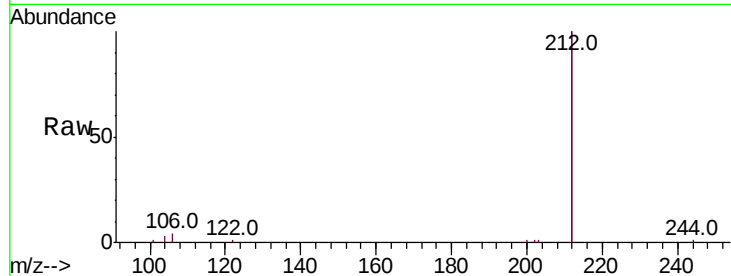
#25  
Fluoranthene-d10  
Concen: 0.210 ng  
RT: 19.10 min Scan# 1364  
Delta R.T. 0.00 min  
Lab File: BE100301.D  
Acq: 2 Jul 2019 14:25

Instrument :  
BNA\_E  
ClientSampleId :  
PST-013-B038-062019

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 212     | 100   |       |       |
| 106     | 1.7   | 1.3   | 1.9   |
| 104     | 1.0   | 0.8   | 1.2   |

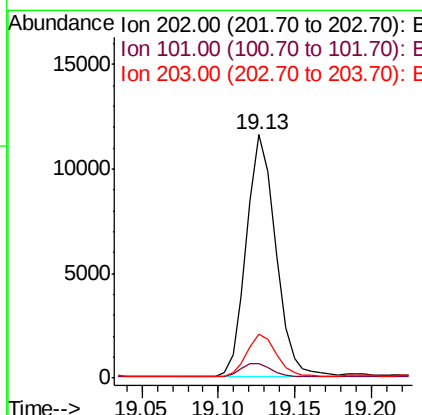
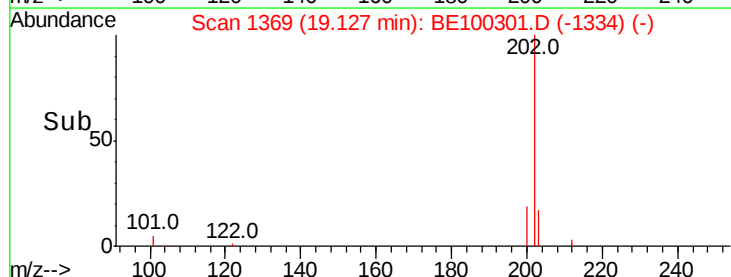
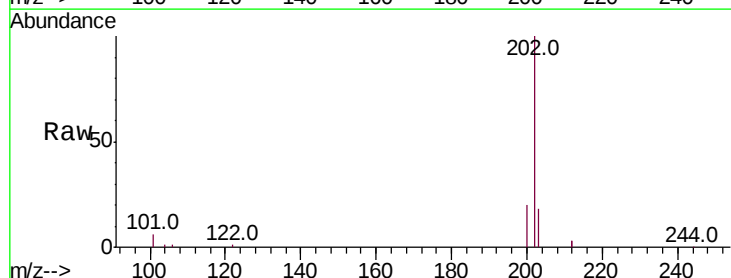
Manual Integrations  
APPROVED

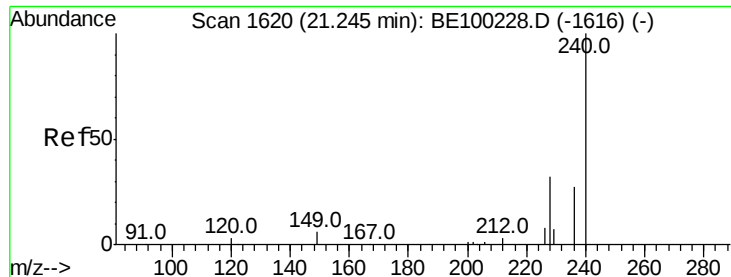
mohammad  
7/3/2019 10:48:26 PM



#26  
Fluoranthene  
Concen: 0.599 ng  
RT: 19.13 min Scan# 1369  
Delta R.T. 0.00 min  
Lab File: BE100301.D  
Acq: 2 Jul 2019 14:25

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 6.0   | 4.6   | 7.0   |
| 203     | 17.7  | 13.7  | 20.5  |





#27

Chrysene-d12

Concen: 0.400 ng

RT: 21.25 min Scan# 1621

Delta R.T. 0.00 min

Lab File: BE100301.D

Acq: 2 Jul 2019 14:25

Instrument :

BNA\_E

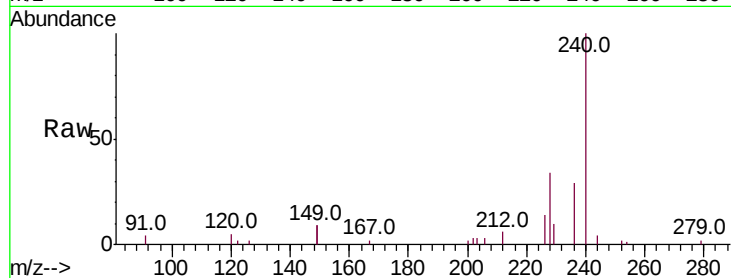
ClientSampleId :

PST-013-B038-062019

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 5.3   | 3.3   | 4.9#  |
| 236     | 28.9  | 22.6  | 34.0  |

Manual Integrations  
APPROVED

mohammad  
7/3/2019 10:48:26 PM

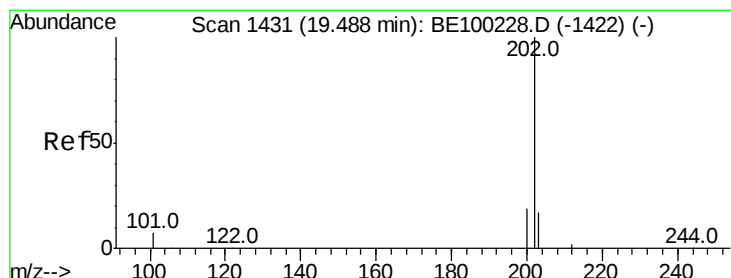
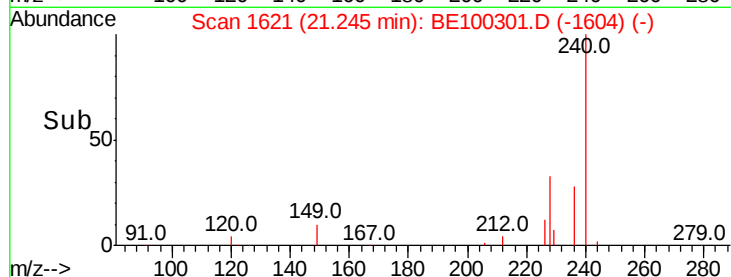
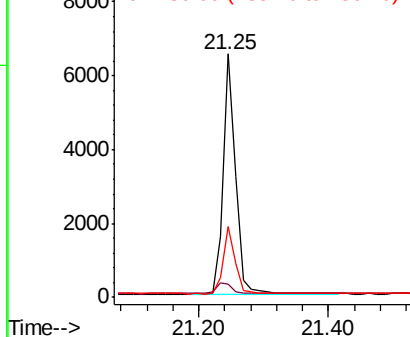


Abundance

Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#28

Pyrene

Concen: 0.659 ng

RT: 19.49 min Scan# 1432

Delta R.T. 0.00 min

Lab File: BE100301.D

Acq: 2 Jul 2019 14:25

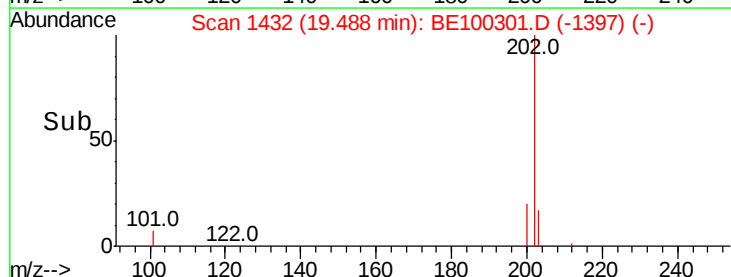
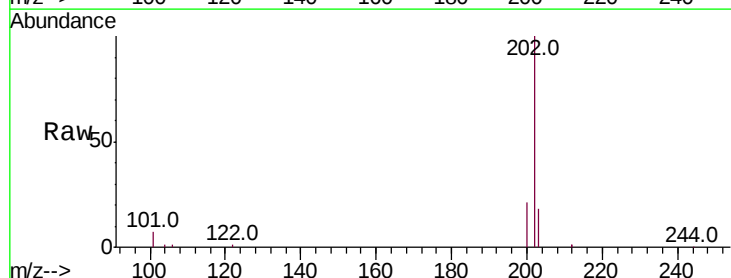
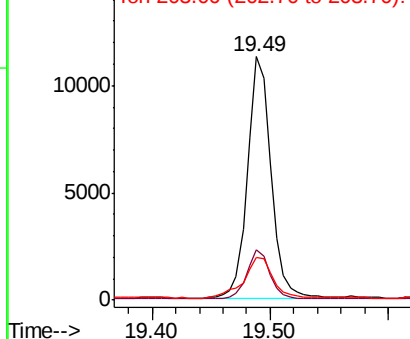
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 19.7  | 15.6  | 23.4  |
| 203     | 20.5  | 14.0  | 21.0  |

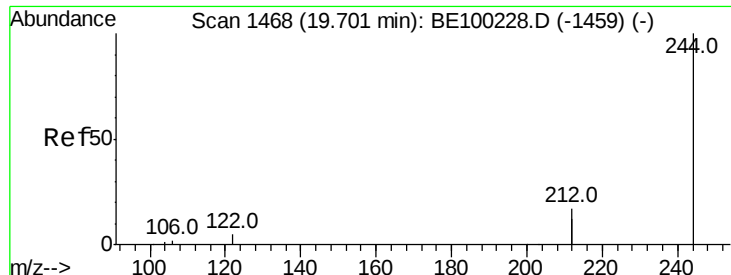
Abundance

Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#29

Terphenyl-d14

Concen: 0.224 ng

RT: 19.70 min Scan# 1469

Delta R.T. 0.00 min

Lab File: BE100301.D

Acq: 2 Jul 2019 14:25

Instrument :

BNA\_E

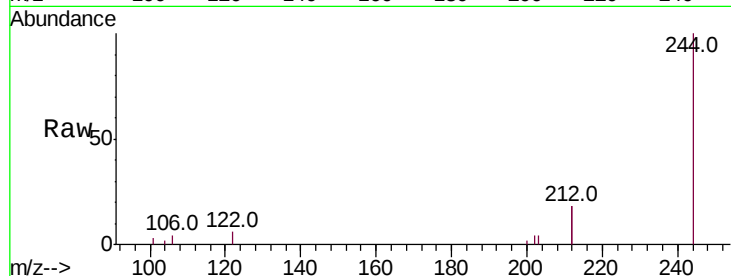
ClientSampleId :

PST-013-B038-062019

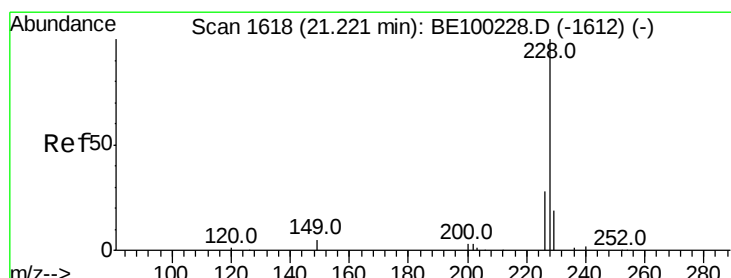
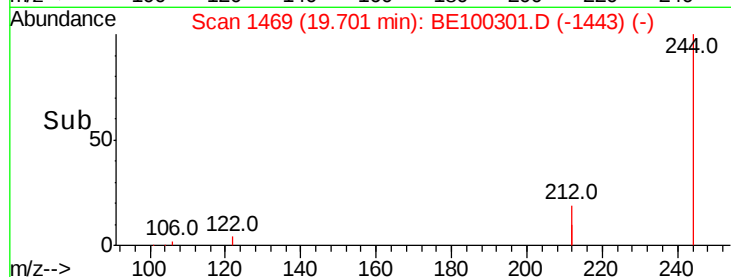
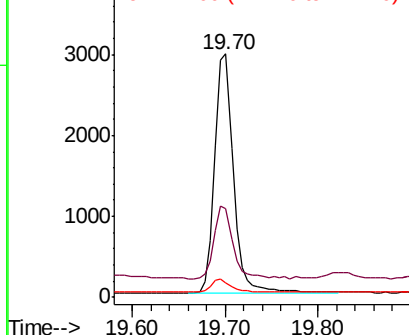
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 36.4  | 27.3  | 40.9  |
| 122     | 6.0   | 4.7   | 7.1   |

Manual Integrations  
APPROVED

mohammad  
7/3/2019 10:48:26 PM



Abundance Ion 244.00 (243.70 to 244.70): E  
Ion 212.00 (211.70 to 212.70): E  
Ion 122.00 (121.70 to 122.70): E



#30

Benzo(a)anthracene

Concen: 0.354 ng

RT: 21.23 min Scan# 1620

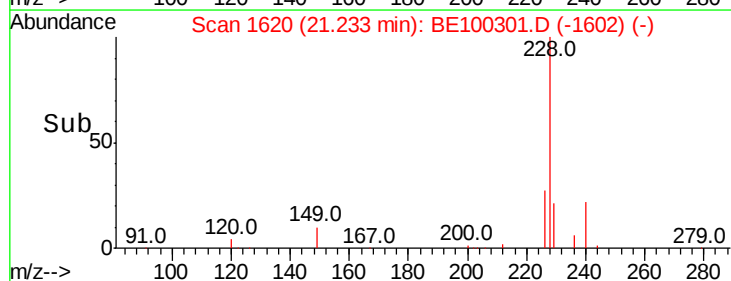
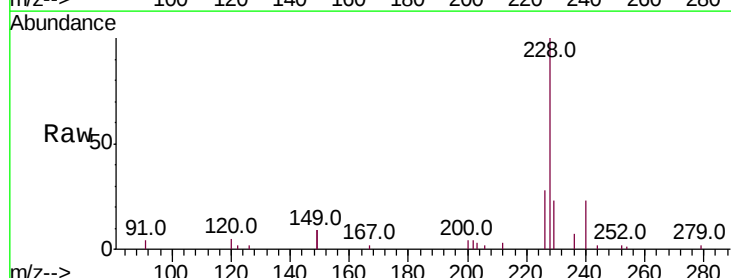
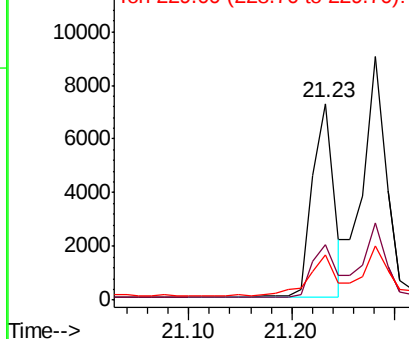
Delta R.T. 0.01 min

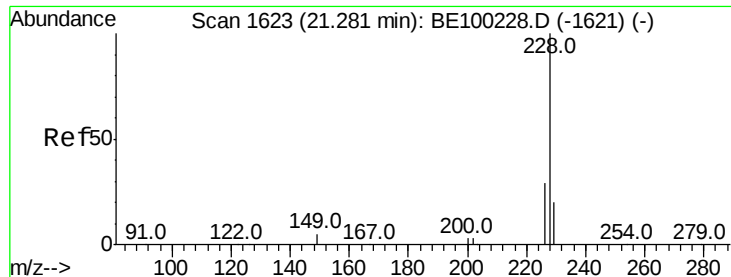
Lab File: BE100301.D

Acq: 2 Jul 2019 14:25

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 28.3  | 23.2  | 34.8  |
| 229     | 22.8  | 15.7  | 23.5  |

Abundance Ion 228.00 (227.70 to 228.70): E  
Ion 226.00 (225.70 to 226.70): E  
Ion 229.00 (228.70 to 229.70): E





#31

Chrysene

Concen: 0.423 ng

RT: 21.28 min Scan# 1624

Delta R.T. 0.00 min

Lab File: BE100301.D

Acq: 2 Jul 2019 14:25

Instrument :

BNA\_E

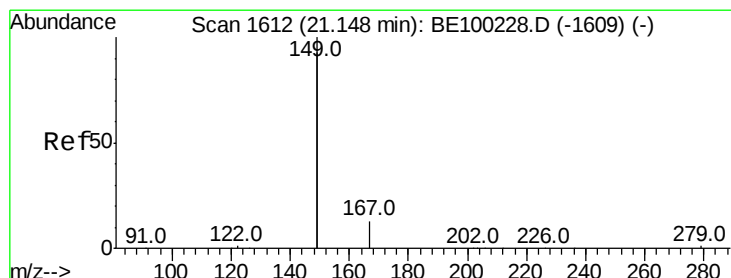
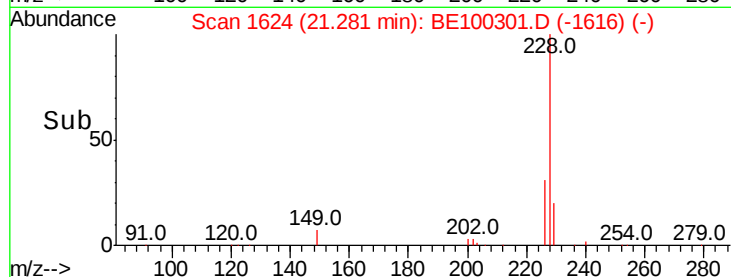
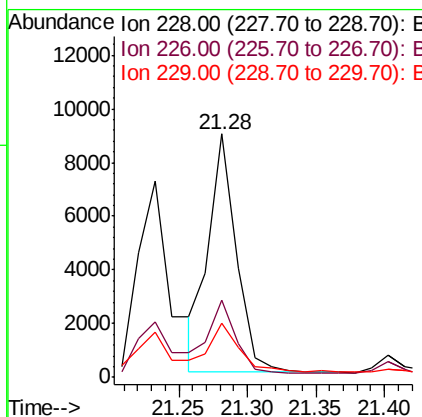
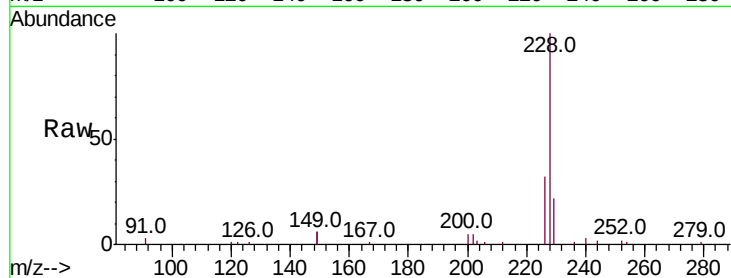
ClientSampleId :

PST-013-B038-062019

|             |       |       |
|-------------|-------|-------|
| Tot Ion:228 | Resp: | 12512 |
| Ion Ratio   | Lower | Upper |
| 228 100     |       |       |
| 226 31.9    | 23.9  | 35.9  |
| 229 22.3    | 16.5  | 24.7  |

Manual Integrations  
APPROVED

mohammad  
7/3/2019 10:48:26 PM



#32

Bis(2-ethylhexyl)phthalate

Concen: 0.194 ng

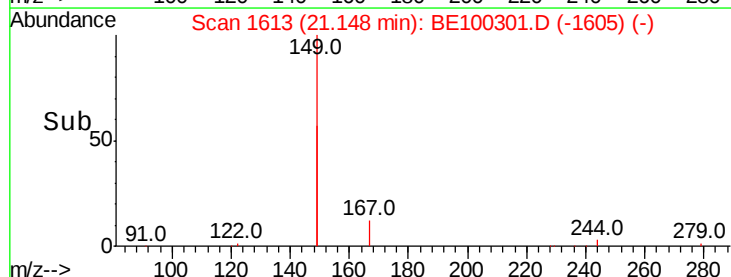
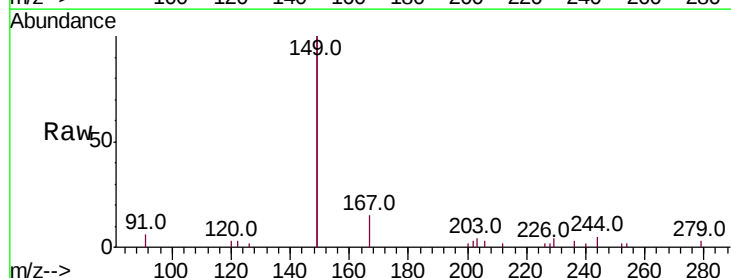
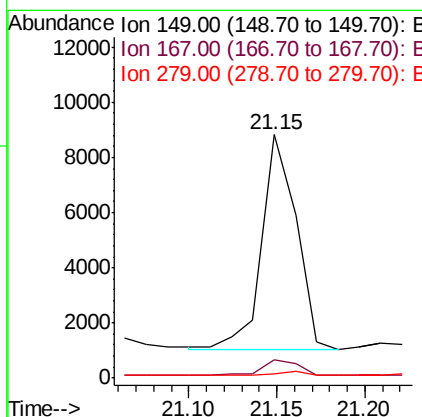
RT: 21.15 min Scan# 1613

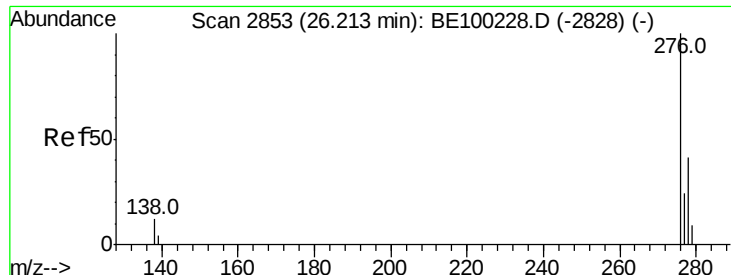
Delta R.T. 0.00 min

Lab File: BE100301.D

Acq: 2 Jul 2019 14:25

|             |       |       |
|-------------|-------|-------|
| Tgt Ion:149 | Resp: | 10497 |
| Ion Ratio   | Lower | Upper |
| 149 100     |       |       |
| 167 7.5     | 5.8   | 8.8   |
| 279 1.8     | 1.1   | 1.7#  |





#33

Indeno(1,2,3-cd)pyrene

Concen: 0.217 ng

RT: 26.23 min Scan# 2858

Delta R.T. 0.01 min

Lab File: BE100301.D

Acq: 2 Jul 2019 14:25

Instrument :

BNA\_E

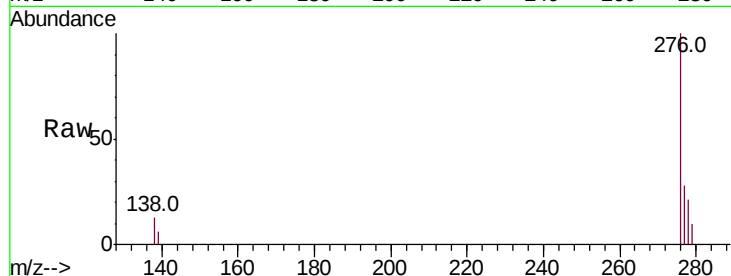
ClientSampleId :

PST-013-B038-062019

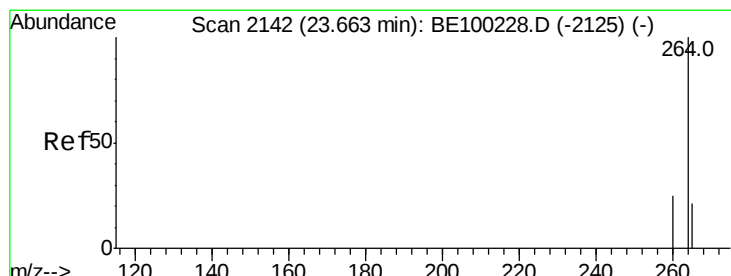
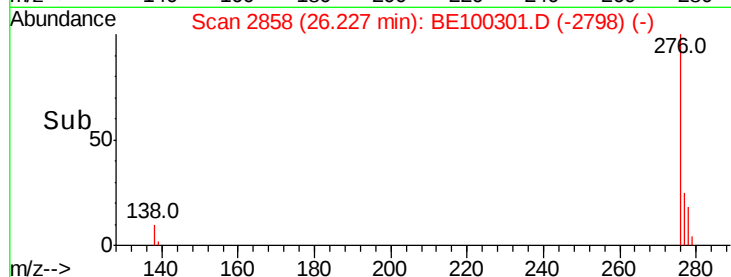
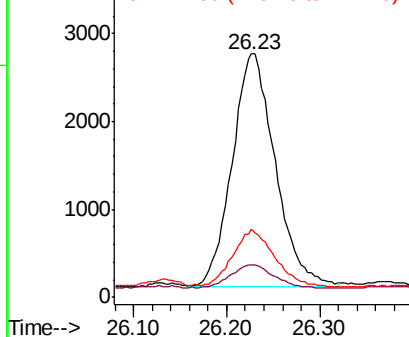
|           |       |       |      |
|-----------|-------|-------|------|
| Tot Ion:  | 276   | Resp: | 8508 |
| Ion Ratio | Lower | Upper |      |
| 276       | 100   |       |      |
| 138       | 10.5  | 9.4   | 14.0 |
| 277       | 24.2  | 19.2  | 28.8 |

Manual Integrations  
APPROVED

mohammad  
7/3/2019 10:48:26 PM



Abundance Ion 276.00 (275.70 to 276.70): E  
Ion 138.00 (137.70 to 138.70): E  
Ion 277.00 (276.70 to 277.70): E



#34

Perylene-d12

Concen: 0.400 ng

RT: 23.67 min Scan# 2146

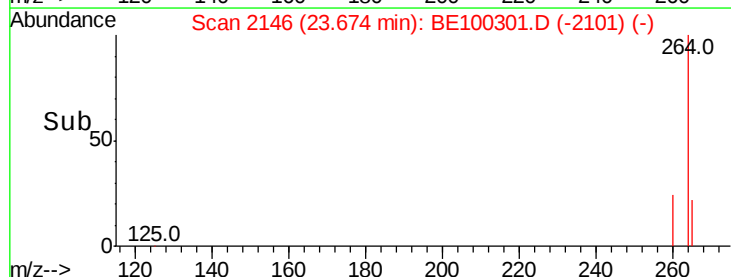
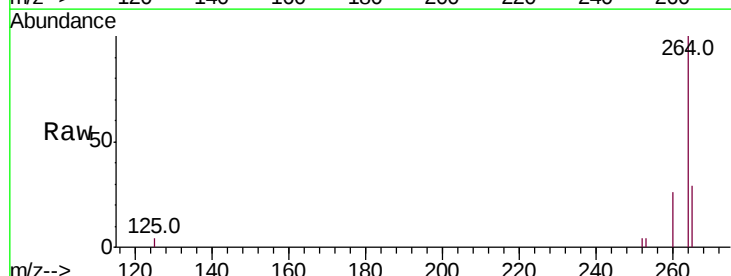
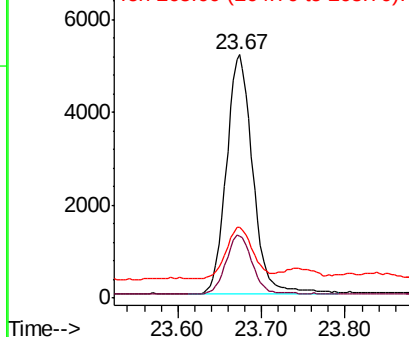
Delta R.T. 0.01 min

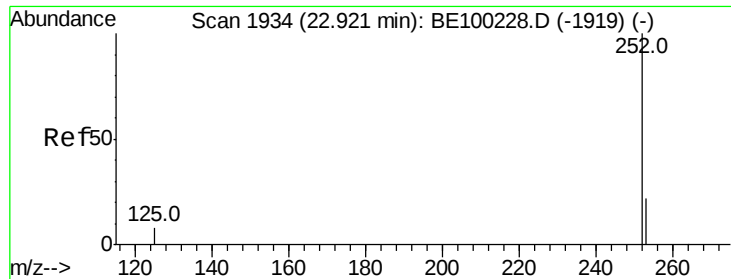
Lab File: BE100301.D

Acq: 2 Jul 2019 14:25

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 264   | Resp: | 11286 |
| Ion Ratio | Lower | Upper |       |
| 264       | 100   |       |       |
| 260       | 25.6  | 20.8  | 31.2  |
| 265       | 28.9  | 21.8  | 32.6  |

Abundance Ion 264.00 (263.70 to 264.70): E  
Ion 260.00 (259.70 to 260.70): E  
Ion 265.00 (264.70 to 265.70): E





#35

Benzo(b)fluoranthene

Concen: 0.538 ng

RT: 22.93 min Scan# 1937

Delta R.T. 0.01 min

Lab File: BE100301.D

Acq: 2 Jul 2019 14:25

Instrument :

BNA\_E

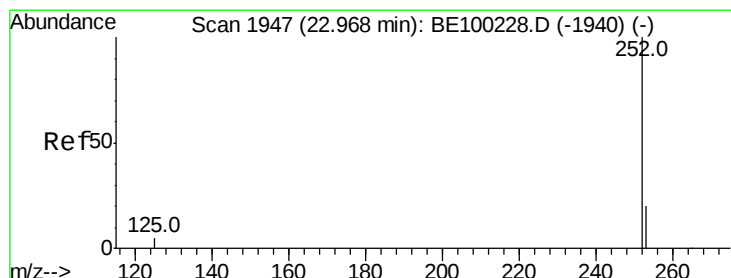
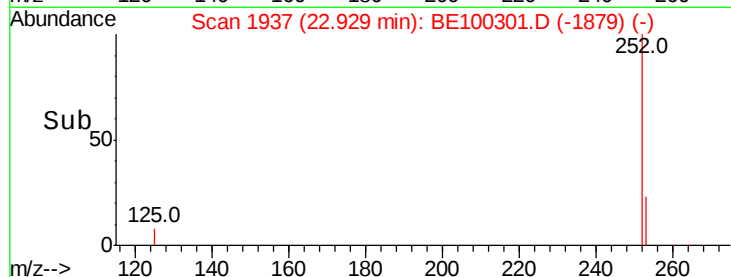
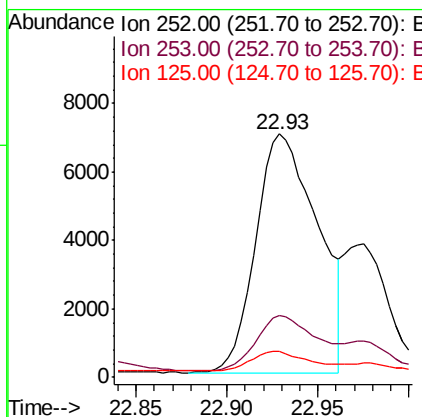
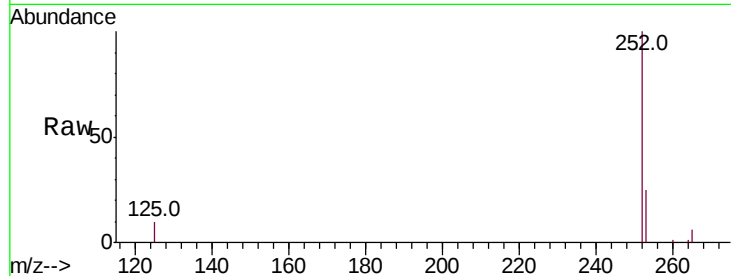
ClientSampleId :

PST-013-B038-062019

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 252   | Resp: | 16462 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 25.3  | 19.2  | 28.8  |
| 125       | 10.4  | 7.4   | 11.0  |

Manual Integrations  
APPROVED

mohammad  
7/3/2019 10:48:26 PM



#36

Benzo(k)fluoranthene

Concen: 0.200 ng m

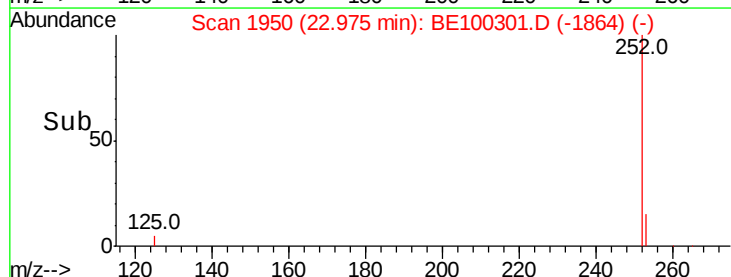
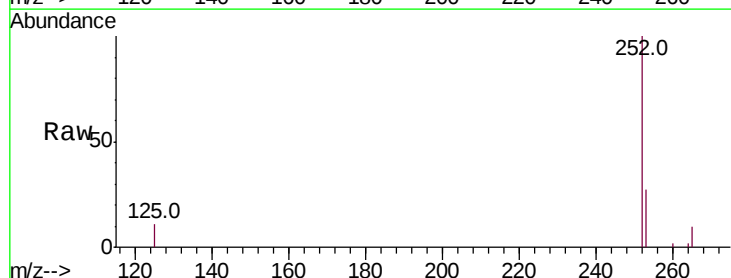
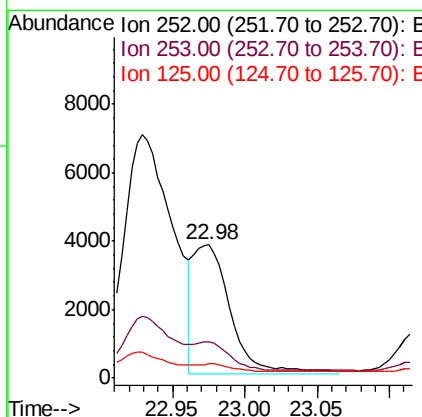
RT: 22.98 min Scan# 1950

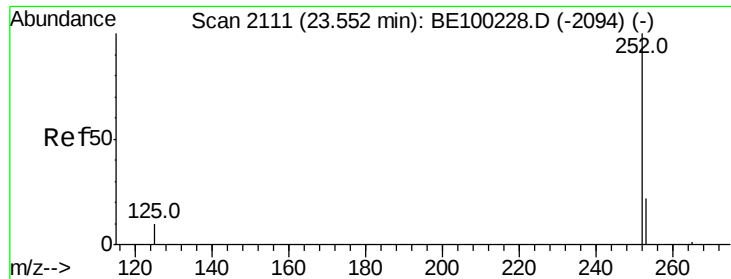
Delta R.T. 0.01 min

Lab File: BE100301.D

Acq: 2 Jul 2019 14:25

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 252   | Resp: | 6840 |
| Ion Ratio | Lower | Upper |      |
| 252       | 100   |       |      |
| 253       | 26.8  | 17.9  | 26.9 |
| 125       | 10.6  | 5.0   | 7.4# |





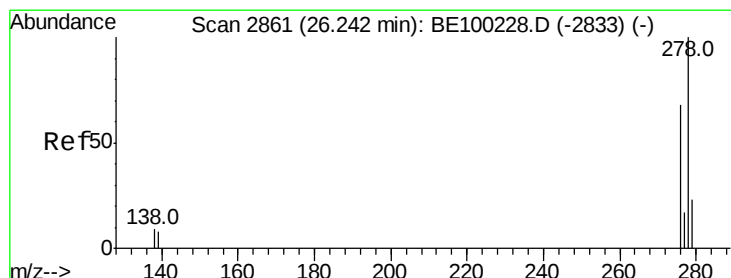
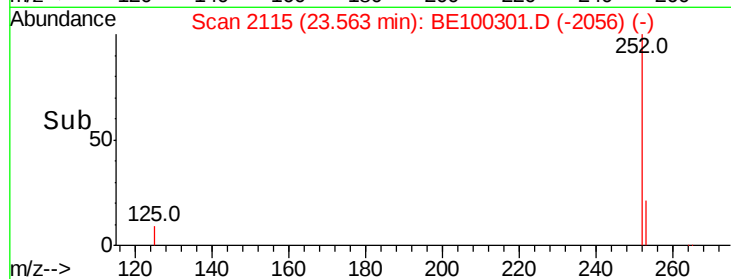
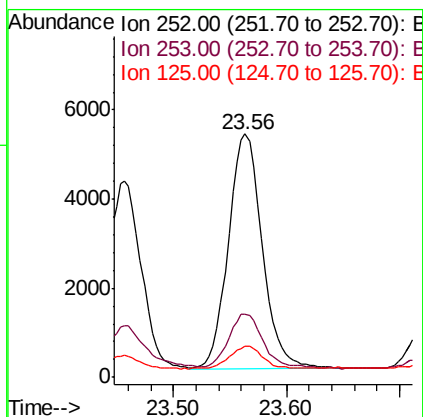
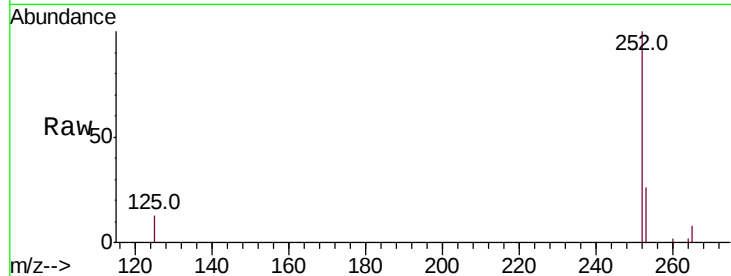
#37  
Benzo(a)pyrene  
Concen: 0.357 ng  
RT: 23.56 min Scan# 2115  
Delta R.T. 0.01 min  
Lab File: BE100301.D  
Acq: 2 Jul 2019 14:25

Instrument :  
BNA\_E  
ClientSampleId :  
PST-013-B038-062019

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 26.0  | 19.6  | 29.4  |
| 125     | 12.6  | 9.0   | 13.6  |

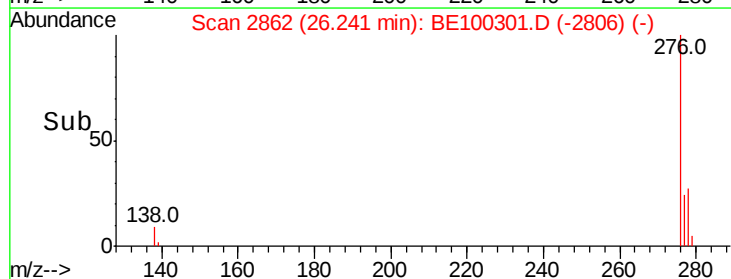
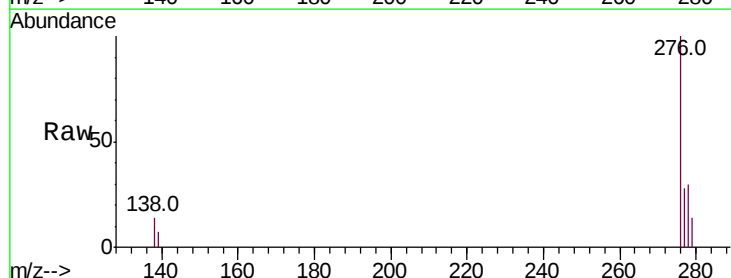
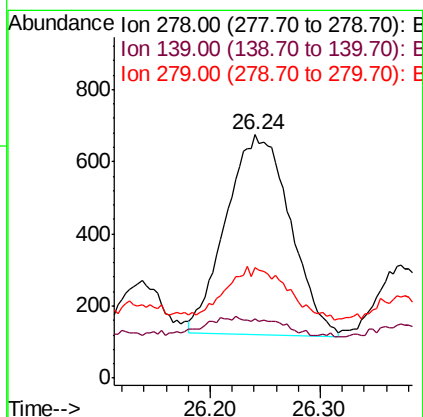
Manual Integrations  
APPROVED

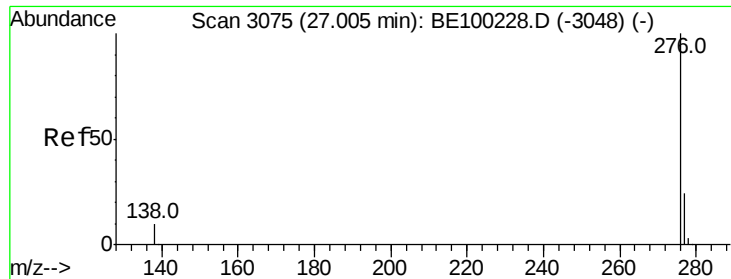
mohammad  
7/3/2019 10:48:26 PM



#38  
Dibenzo(a,h)anthracene  
Concen: 0.070 ng  
RT: 26.24 min Scan# 2862  
Delta R.T. -0.00 min  
Lab File: BE100301.D  
Acq: 2 Jul 2019 14:25

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 24.1  | 8.2   | 12.2# |
| 279     | 45.6  | 20.3  | 30.5# |





#39

Benzo(a,h,i)perylene

Concen: 0.262 ng

RT: 27.02 min Scan# 3080

Delta R.T. 0.01 min

Lab File: BE100301.D

Acq: 2 Jul 2019 14:25

Instrument :

BNA\_E

ClientSampleId :

PST-013-B038-062019

Tot Ion: 276 Resp: 8635

Ion Ratio Lower Upper

276 100

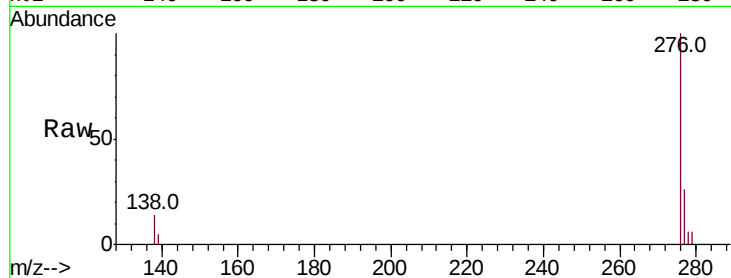
277 26.1 20.2 30.2

138 14.2 9.0 13.6#

Manual Integrations  
APPROVED

mohammad

7/3/2019 10:48:26 PM



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

