

Data Path : Z:\HPCHEM1\BNA F\DATA\BF030317\  
 Data File : BF093395.D  
 Acq On : 4 Mar 2017 9:49  
 Operator : SJ/MA  
 Sample : I2056-06 5X  
 Misc :  
 ALS Vial : 34 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 5B-17

Manual Integrations  
 APPROVED

mohammad  
 3/6/2017 4:24:05 PM

Quant Time: Mar 06 00:52:58 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF013017.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sun Mar 05 23:55:48 2017  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.78  | 152  | 199546   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.08  | 136  | 696916   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10        | 9.84  | 164  | 296181   | 20.00 | ng    | 0.01     |
| 63) Phenanthrene-d10        | 11.32 | 188  | 388928   | 20.00 | ng    | 0.01     |
| 75) Chrysene-d12            | 13.96 | 240  | 316240   | 20.00 | ng    | 0.01     |
| 86) Perylene-d12            | 15.39 | 264  | 260700   | 20.00 | ng    | 0.03     |
| System Monitoring Compounds |       |      |          |       |       |          |
| 5) 2-Fluorophenol           | 5.38  | 112  | 258313   | 22.21 | ng    | 0.01     |
| 7) Phenol-d6                | 6.43  | 99   | 361777   | 24.17 | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 7.36  | 82   | 187993   | 15.02 | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 10.62 | 330  | 41143    | 19.21 | ng    | 0.01     |
| 44) 2-Fluorobiphenyl        | 9.15  | 172  | 301087   | 18.42 | ng    | 0.00     |
| 78) Terphenyl-d14           | 12.90 | 244  | 170050   | 12.63 | ng    | 0.01     |
| Target Compounds            |       |      |          |       |       |          |
| 31) Naphthalene             | 8.10  | 128  | 236645m  | 6.70  | ng    | Qvalue   |
| 37) 2-Methylnaphthalene     | 8.80  | 142  | 511359   | 22.54 | ng    | 98       |
| 49) Dimethylphthalate       | 9.55  | 163  | 62239    | 3.12  | ng    | # 80     |
| 70) Phenanthrene            | 11.34 | 178  | 245727   | 11.03 | ng    | # 93     |
| 77) Pyrene                  | 12.76 | 202  | 56958    | 2.41  | ng    | # 83     |

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

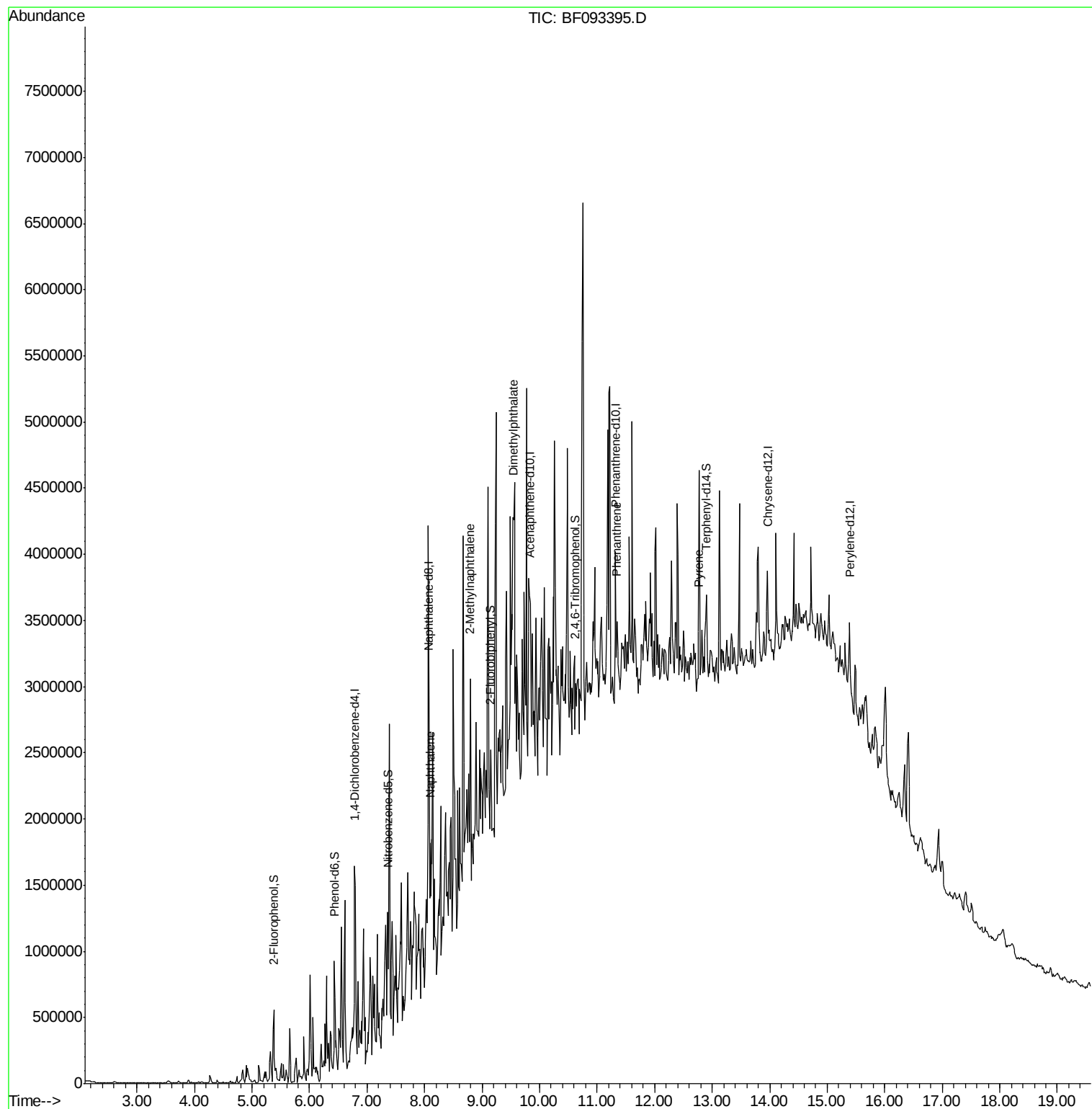
Data Path : Z:\HPCHEM1\BNA F\DATA\BF030317\  
Data File : BF093395.D  
Acq On : 4 Mar 2017 9:49  
Operator : SJ/MA  
Sample : I2056-06 5X  
Misc :  
ALS Vial : 34 Sample Multiplier: 1

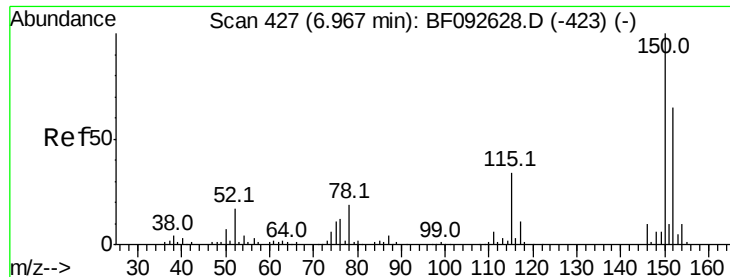
Instrument :  
BNA\_F  
ClientSampleId :  
5B-17

Manual Integrations  
APPROVED

mohammad  
3/6/2017 4:24:05 PM

Quant Time: Mar 06 00:52:58 2017  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF013017.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sun Mar 05 23:55:48 2017  
Response via : Initial Calibration





#1

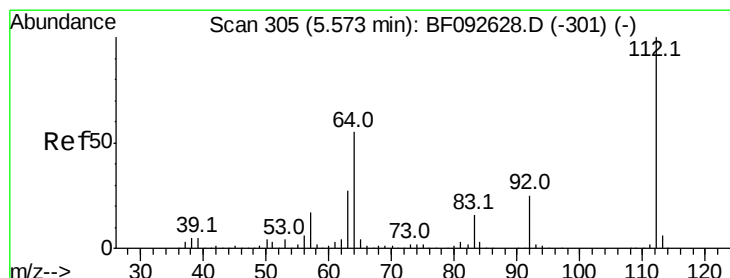
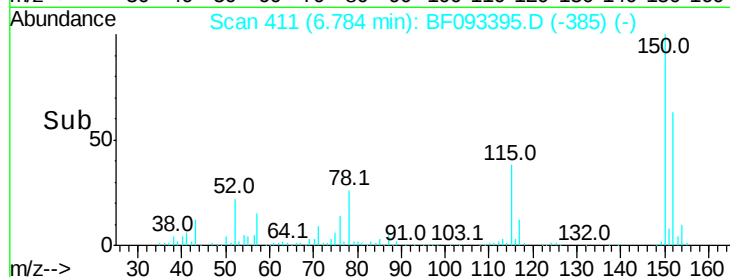
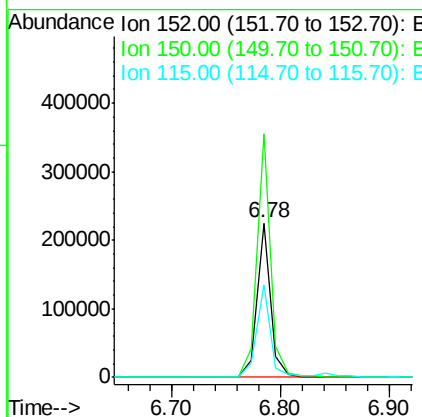
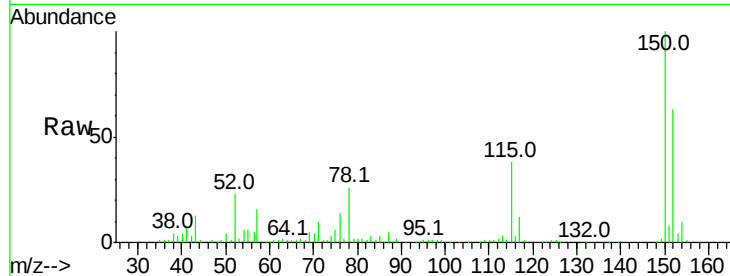
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.78 min Scan# 411  
Delta R.T. -0.00 min  
Lab File: BF093395.D  
Acq: 4 Mar 2017 9:49

Instrument :  
BNA\_F  
ClientSampleId :  
5B-17

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 157.9 | 124.9 | 187.3 |
| 115     | 60.4  | 46.0  | 69.0  |

Manual Integrations  
APPROVED

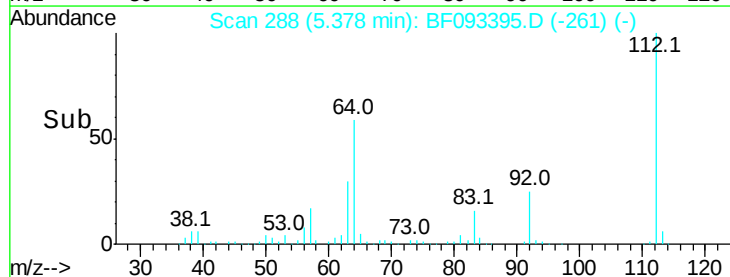
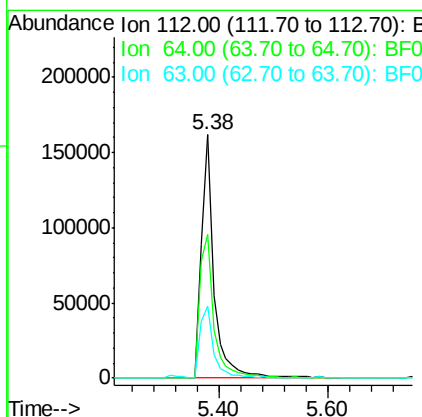
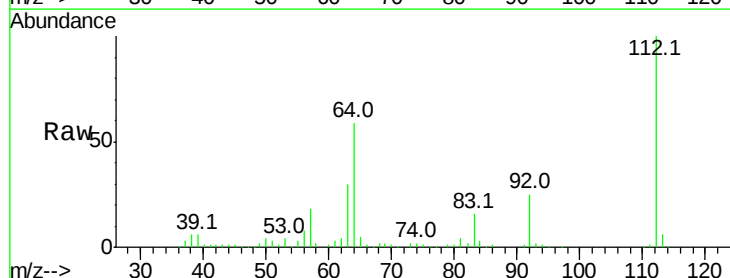
mohammad  
3/6/2017 4:24:05 PM

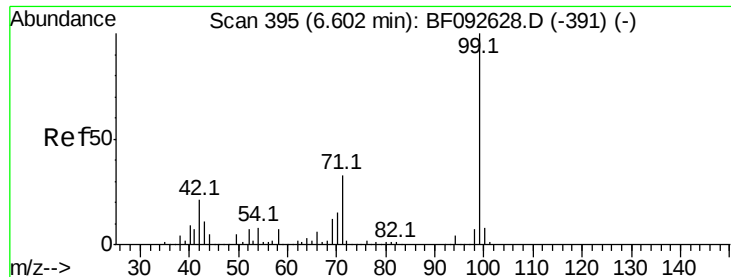


#5

2-Fluorophenol  
Concen: 22.21 ng  
RT: 5.38 min Scan# 288  
Delta R.T. 0.01 min  
Lab File: BF093395.D  
Acq: 4 Mar 2017 9:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 59.2  | 46.1  | 69.1  |
| 63      | 29.7  | 23.8  | 35.6  |





#7

Phenol-d6

Concen: 24.17 ng

RT: 6.43 min Scan# 380

Delta R.T. -0.01 min

Lab File: BF093395.D

Acq: 4 Mar 2017 9:49

Instrument :

BNA\_F

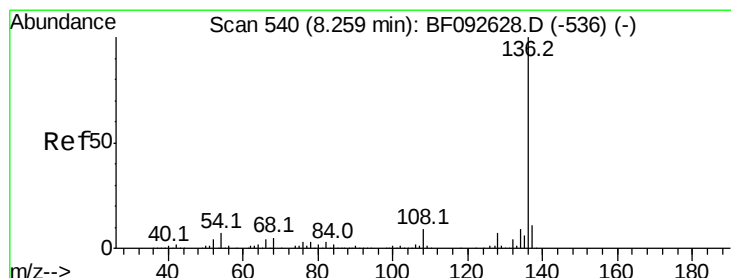
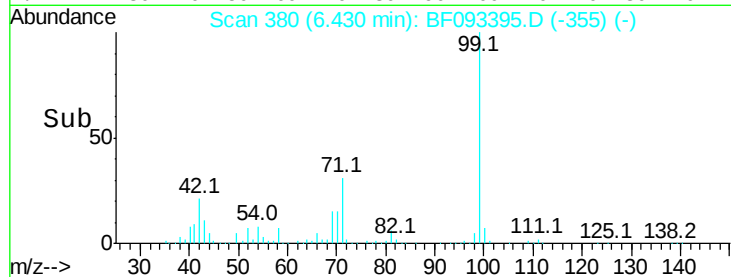
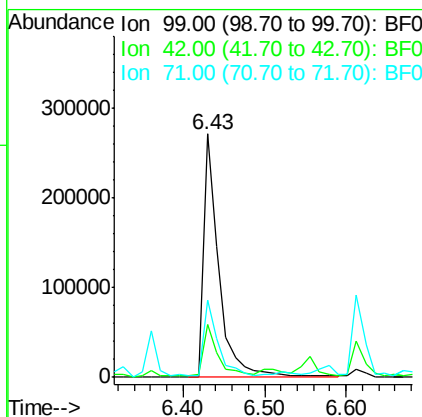
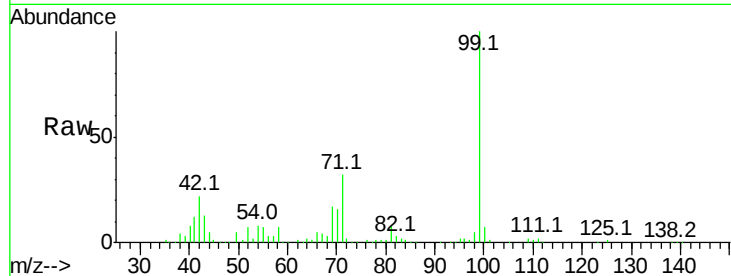
ClientSampled :

5B-17

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 99    | Resp: | 361777 |
| Ion Ratio | Lower | Upper |        |
| 99        | 100   |       |        |
| 42        | 21.6  | 15.6  | 23.4   |
| 71        | 31.5  | 27.5  | 41.3   |

Manual Integrations  
APPROVED

mohammad  
3/6/2017 4:24:05 PM



#21

Naphthalene-d8

Concen: 20.00 ng

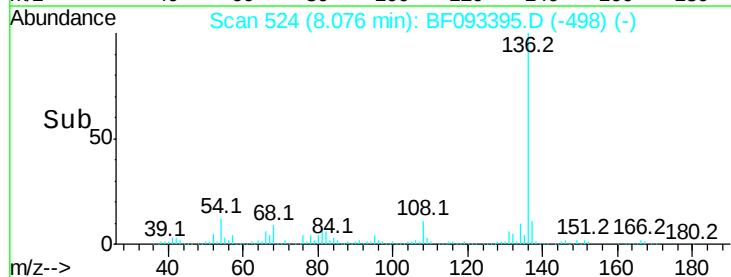
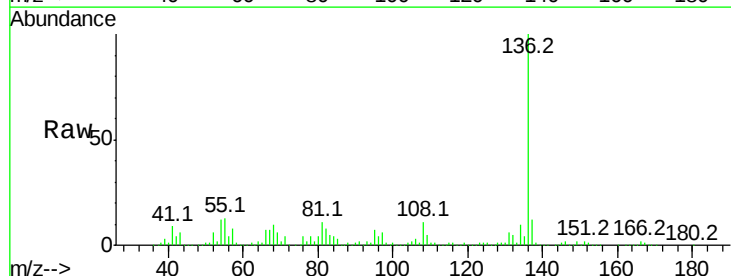
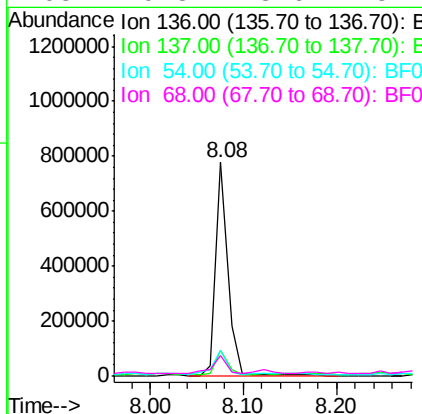
RT: 8.08 min Scan# 524

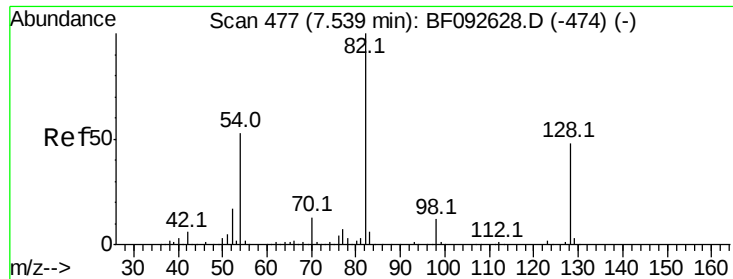
Delta R.T. -0.00 min

Lab File: BF093395.D

Acq: 4 Mar 2017 9:49

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 136   | Resp: | 696916 |
| Ion Ratio | Lower | Upper |        |
| 136       | 100   |       |        |
| 137       | 12.0  | 8.4   | 12.6   |
| 54        | 12.2  | 4.5   | 6.7#   |
| 68        | 9.8   | 3.6   | 5.4#   |





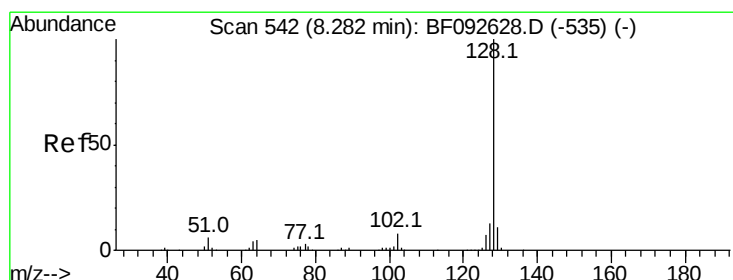
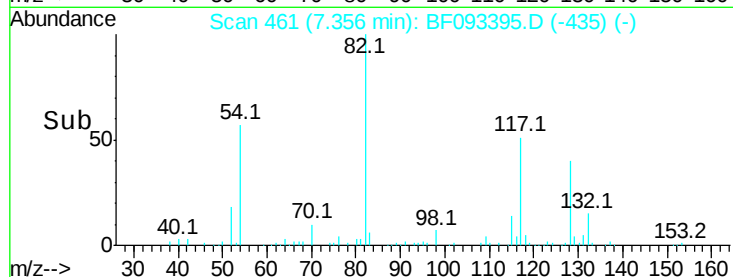
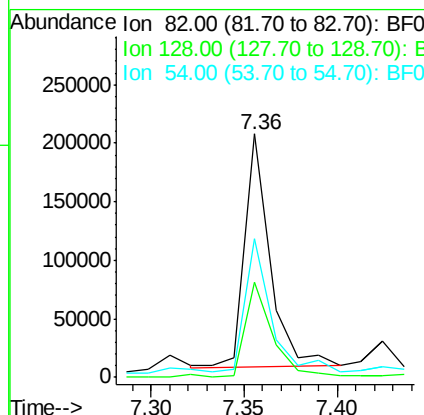
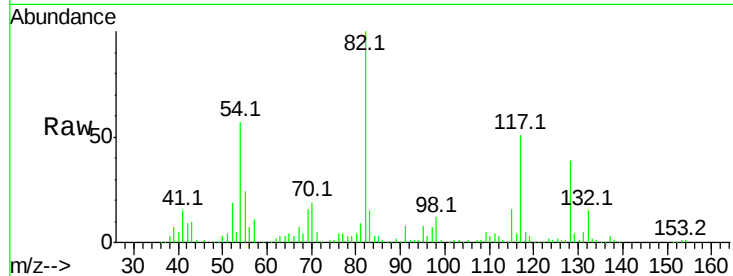
#23  
 Nitrobenzene-d5  
 Concen: 15.02 ng  
 RT: 7.36 min Scan# 461  
 Delta R.T. -0.00 min  
 Lab File: BF093395.D  
 Acq: 4 Mar 2017 9:49

Instrument :  
 BNA\_F  
 ClientSampleID :  
 5B-17

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 82    | Resp: | 187993 |
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 128       | 39.1  | 34.6  | 52.0   |
| 54        | 56.8  | 39.5  | 59.3   |

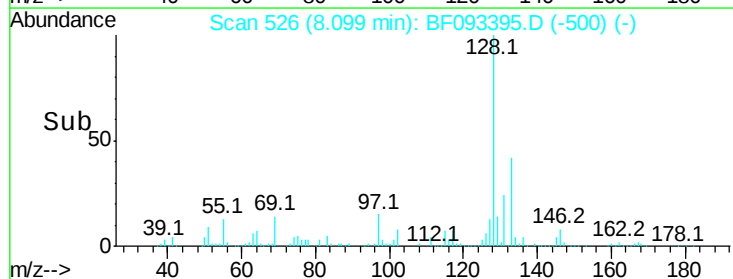
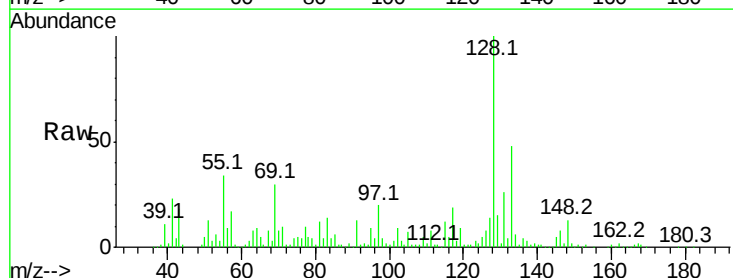
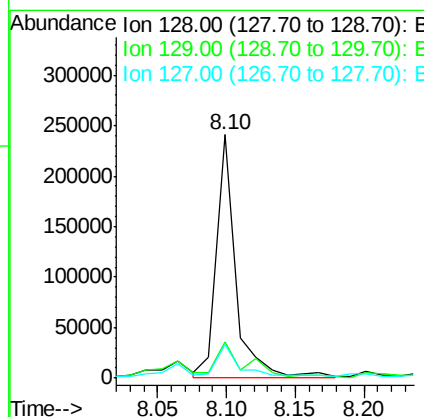
Manual Integrations  
 APPROVED

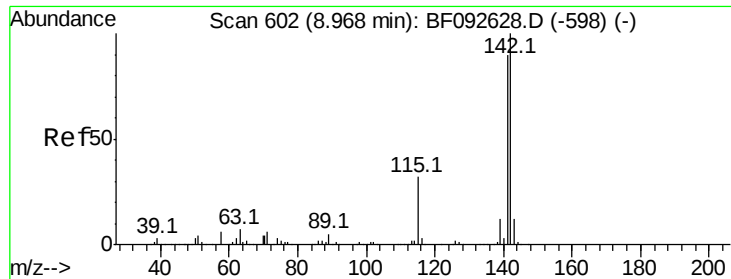
mohammad  
 3/6/2017 4:24:05 PM



#31  
 Naphthalene  
 Concen: 6.70 ng m  
 RT: 8.10 min Scan# 526  
 Delta R.T. -0.00 min  
 Lab File: BF093395.D  
 Acq: 4 Mar 2017 9:49

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 128   | Resp: | 236645 |
| Ion Ratio | Lower | Upper |        |
| 128       | 100   |       |        |
| 129       | 14.7  | 9.5   | 14.3#  |
| 127       | 14.1  | 10.8  | 16.2   |





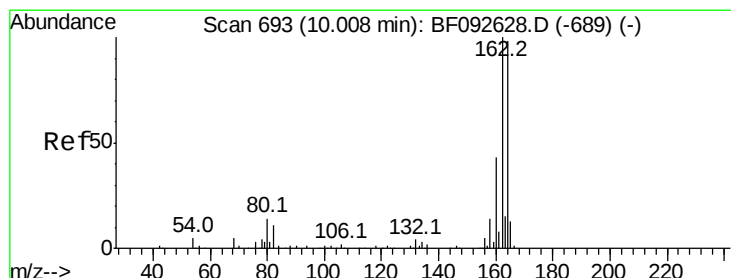
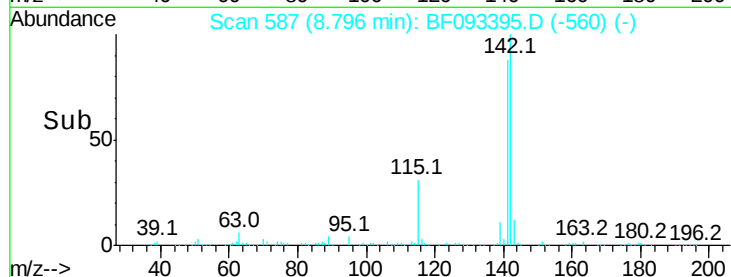
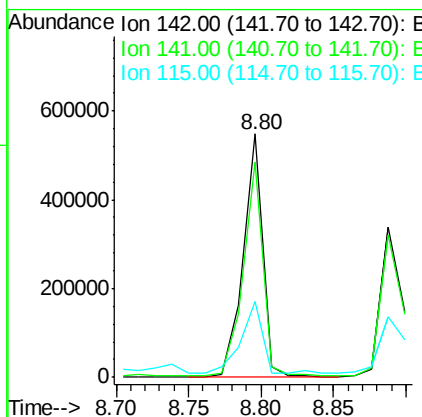
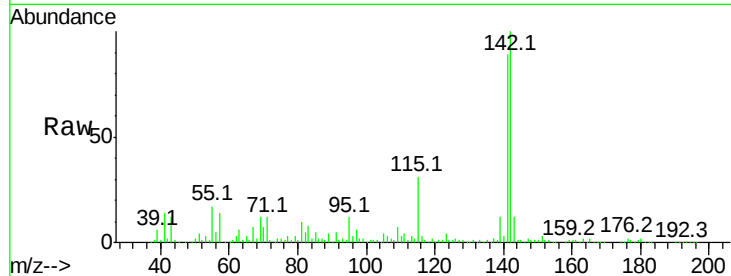
#37  
2-Methylnaphthalene  
Concen: 22.54 ng  
RT: 8.80 min Scan# 587  
Delta R.T. 0.01 min  
Lab File: BF093395.D  
Acq: 4 Mar 2017 9:49

Instrument :  
BNA\_F  
ClientSampleId :  
5B-17

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 142     | 100   | 511359 |       |       |
| 141     | 88.6  |        | 71.0  | 106.6 |
| 115     | 31.4  |        | 28.3  | 42.5  |

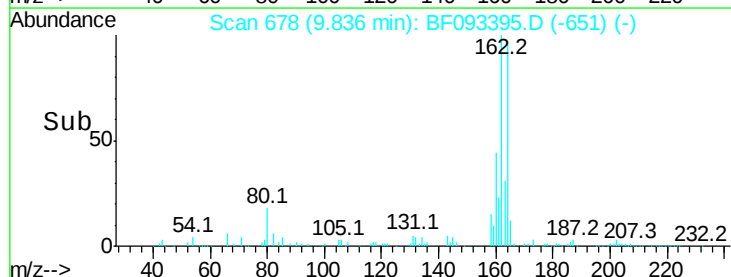
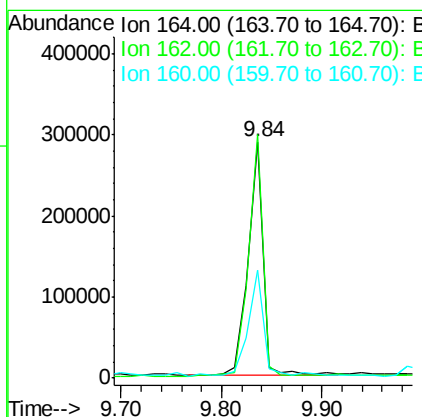
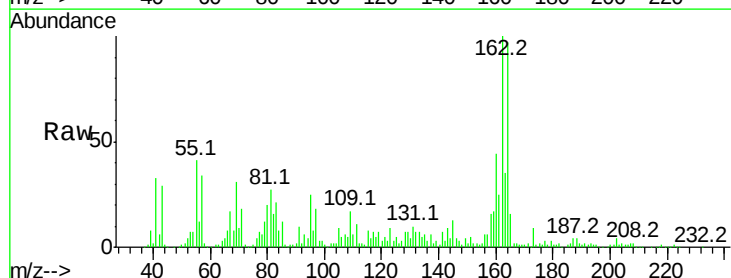
Manual Integrations  
APPROVED

mohammad  
3/6/2017 4:24:05 PM



#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 9.84 min Scan# 678  
Delta R.T. 0.01 min  
Lab File: BF093395.D  
Acq: 4 Mar 2017 9:49

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 164     | 100   | 296181 |       |       |
| 162     | 103.0 |        | 80.2  | 120.2 |
| 160     | 45.8  |        | 36.9  | 55.3  |





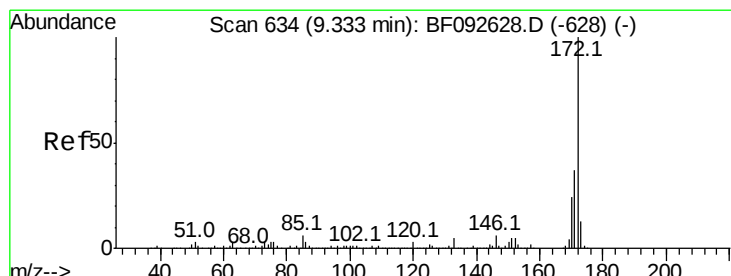
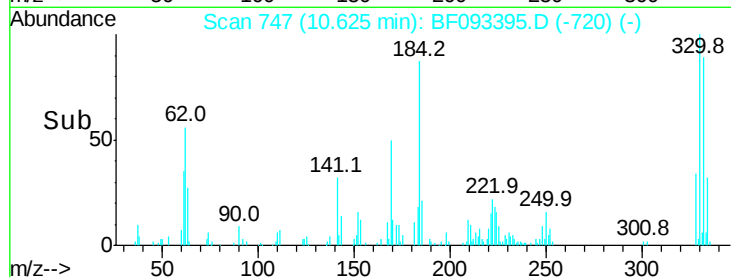
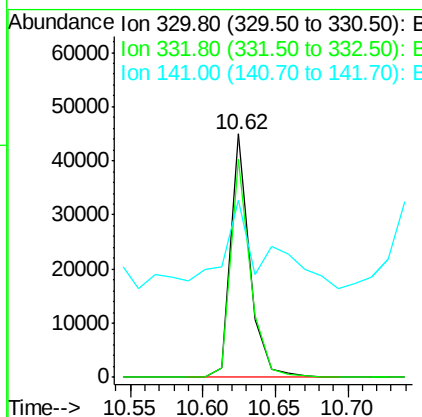
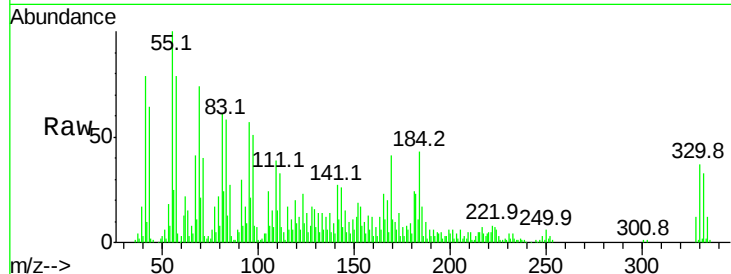
#41  
 2,4,6-Tribromophenol  
 Concen: 19.21 ng  
 RT: 10.62 min Scan# 747  
 Delta R.T. 0.01 min  
 Lab File: BF093395.D  
 Acq: 4 Mar 2017 9:49

Instrument :  
 BNA\_F  
 ClientSampled :  
 5B-17

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 92.9  | 77.4  | 116.2 |
| 141     | 80.9  | 34.1  | 51.1# |

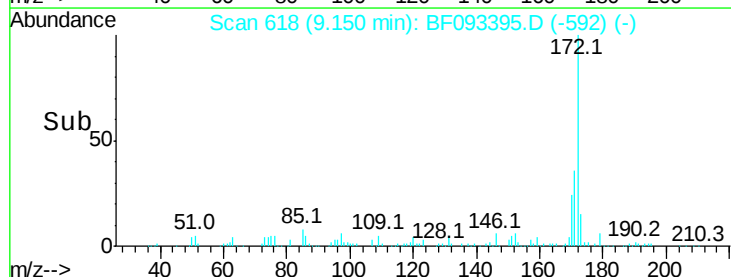
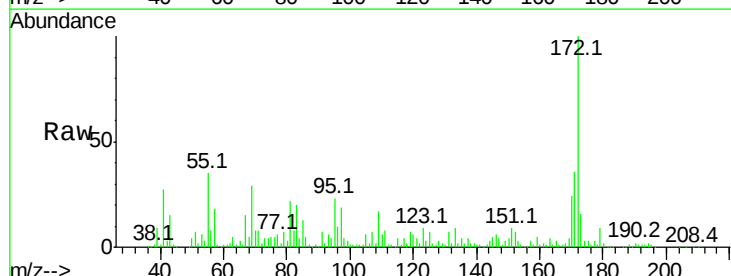
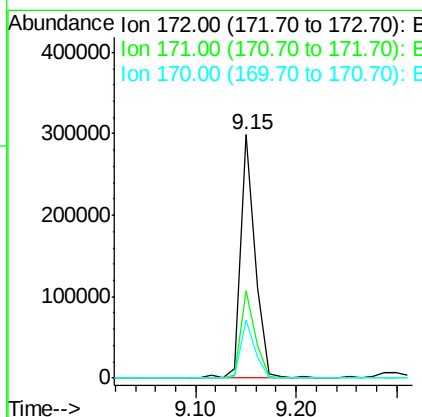
Manual Integrations  
 APPROVED

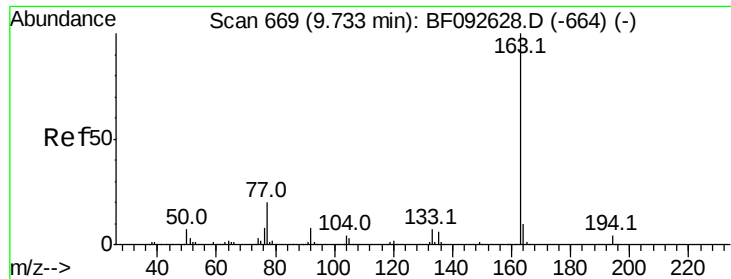
mohammad  
 3/6/2017 4:24:05 PM



#44  
 2-Fluorobiphenyl  
 Concen: 18.42 ng  
 RT: 9.15 min Scan# 618  
 Delta R.T. -0.00 min  
 Lab File: BF093395.D  
 Acq: 4 Mar 2017 9:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.1  | 29.4  | 44.0  |
| 170     | 23.8  | 20.2  | 30.4  |





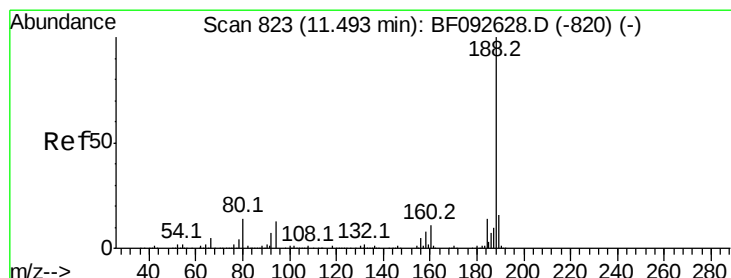
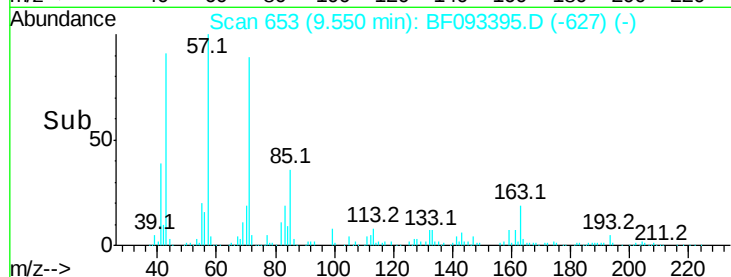
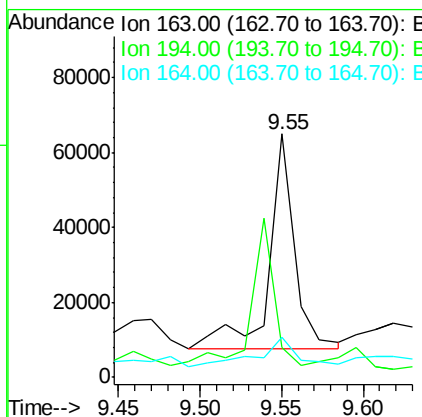
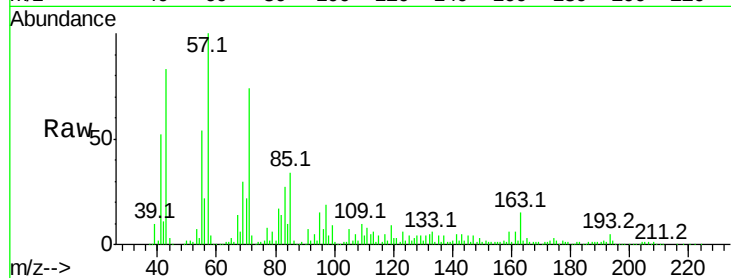
#49  
Dimethylphthalate  
Concen: 3.12 ng  
RT: 9.55 min Scan# 653  
Delta R.T. -0.00 min  
Lab File: BF093395.D  
Acq: 4 Mar 2017 9:49

Instrument :  
BNA\_F  
ClientSampleId :  
5B-17

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 12.0  | 3.0   | 4.4#  |
| 164     | 16.5  | 8.0   | 12.0# |

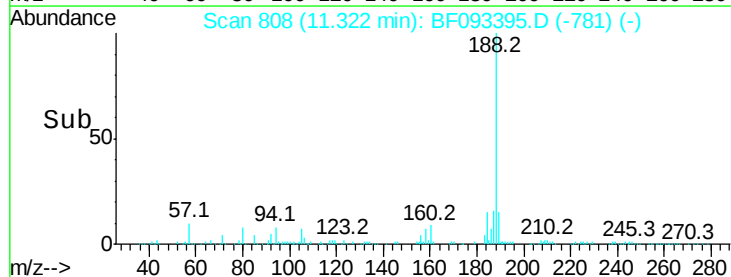
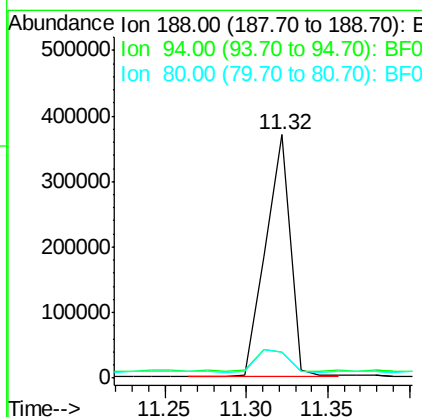
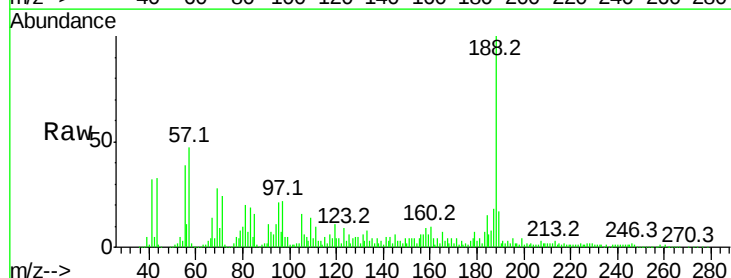
Manual Integrations  
APPROVED

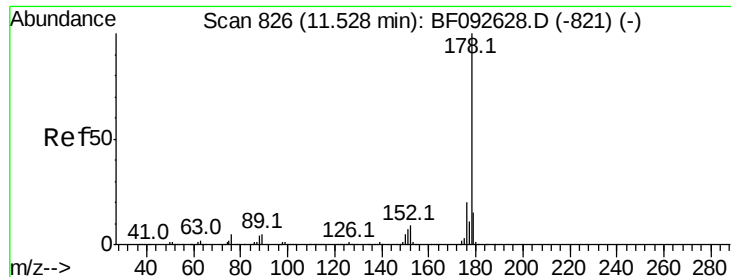
mohammad  
3/6/2017 4:24:05 PM



#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.32 min Scan# 808  
Delta R.T. 0.01 min  
Lab File: BF093395.D  
Acq: 4 Mar 2017 9:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 10.6  | 10.0  | 15.0  |
| 80      | 10.5  | 11.2  | 16.8# |





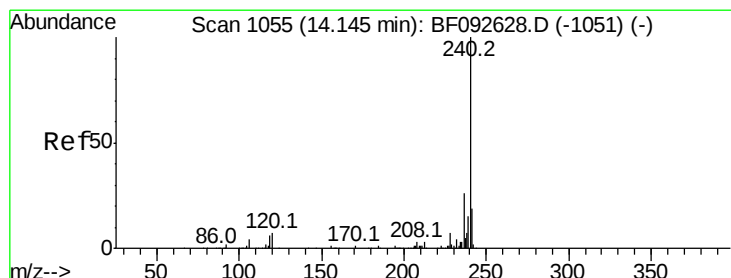
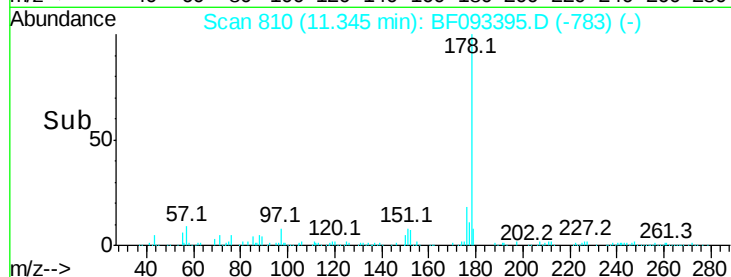
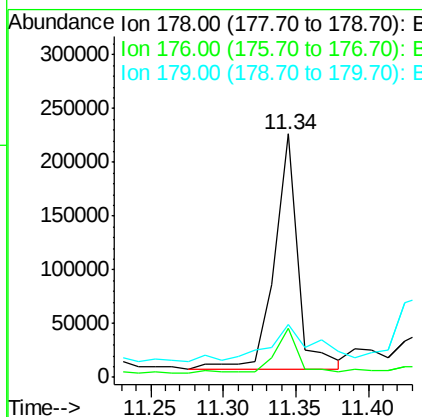
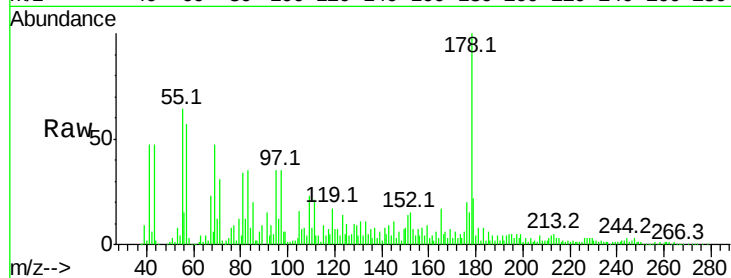
#70  
Phenanthrene  
Concen: 11.03 ng  
RT: 11.34 min Scan# 810  
Delta R.T. 0.01 min  
Lab File: BF093395.D  
Acq: 4 Mar 2017 9:49

Instrument :  
BNA\_F  
ClientSampleId :  
5B-17

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 20.0  | 16.6  | 25.0  |
| 179     | 21.8  | 12.8  | 19.2  |

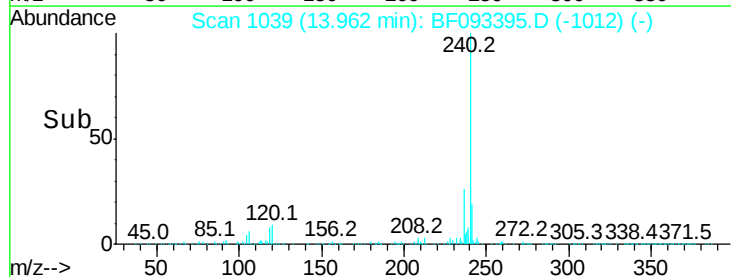
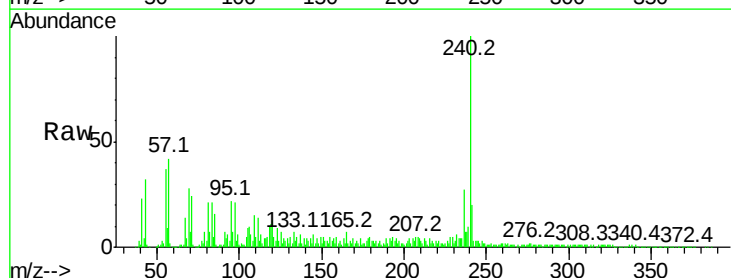
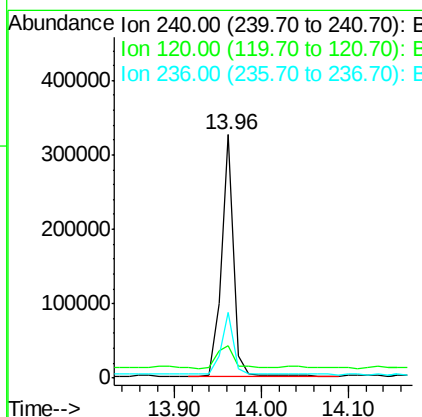
Manual Integrations  
APPROVED

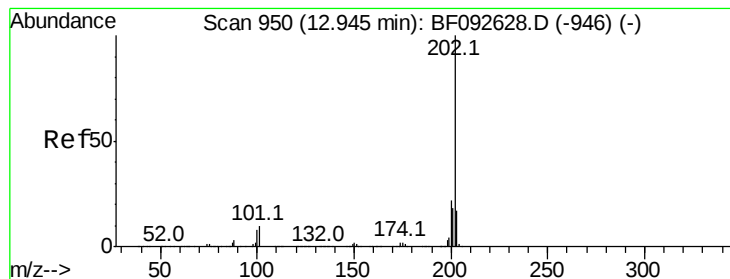
mohammad  
3/6/2017 4:24:05 PM



#75  
Chrysene-d12  
Concen: 20.00 ng  
RT: 13.96 min Scan# 1039  
Delta R.T. 0.01 min  
Lab File: BF093395.D  
Acq: 4 Mar 2017 9:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 13.4  | 12.9  | 19.3  |
| 236     | 27.1  | 20.9  | 31.3  |





#77

Pvrene

Concen: 2.41 ng

RT: 12.76 min Scan# 934

Delta R.T. 0.01 min

Lab File: BF093395.D

Acq: 4 Mar 2017 9:49

Instrument :

BNA\_F

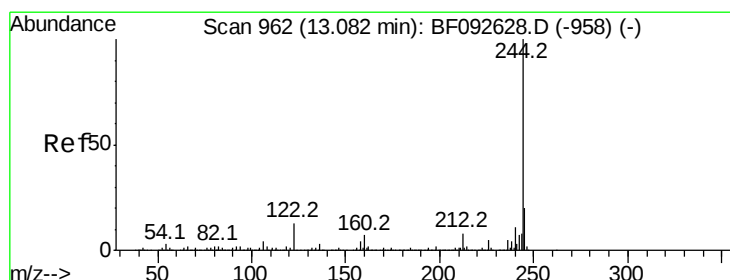
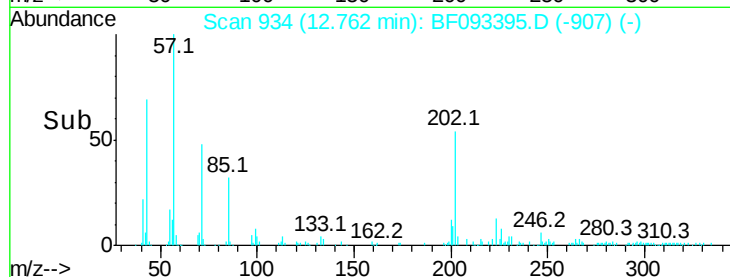
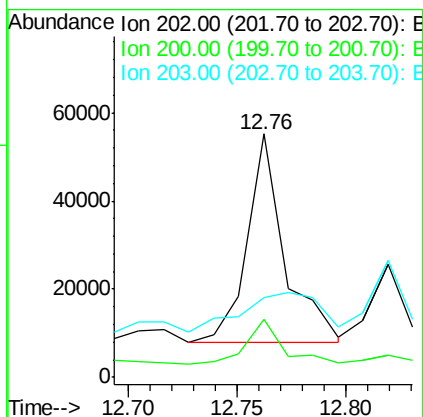
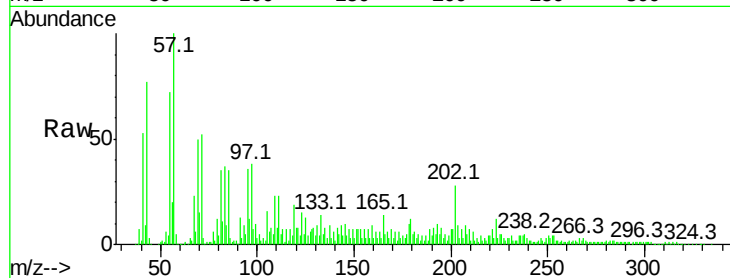
ClientSampleId :

5B-17

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 202   | Resp: | 56958 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 200       | 23.9  | 17.7  | 26.5  |
| 203       | 32.9  | 14.7  | 22.1# |

Manual Integrations  
APPROVED

mohammad  
3/6/2017 4:24:05 PM



#78

Terphenyl-d14

Concen: 12.63 ng

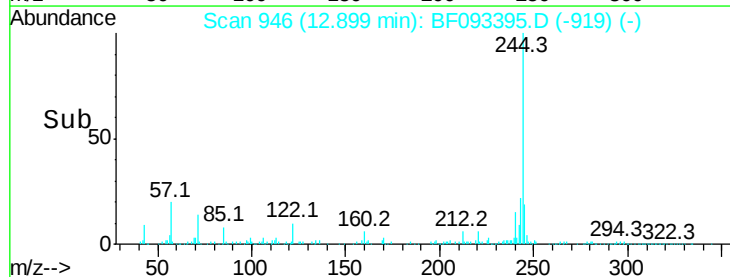
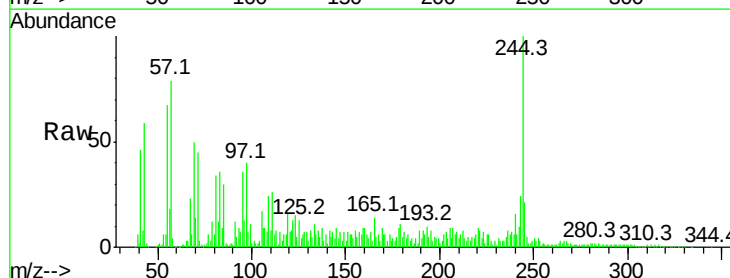
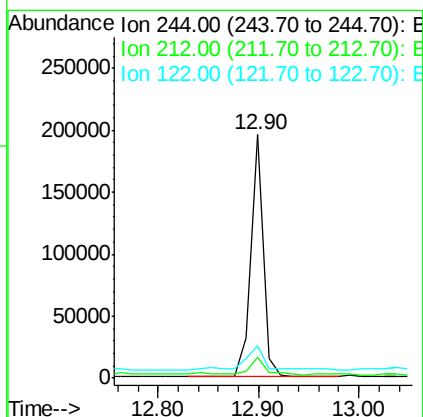
RT: 12.90 min Scan# 946

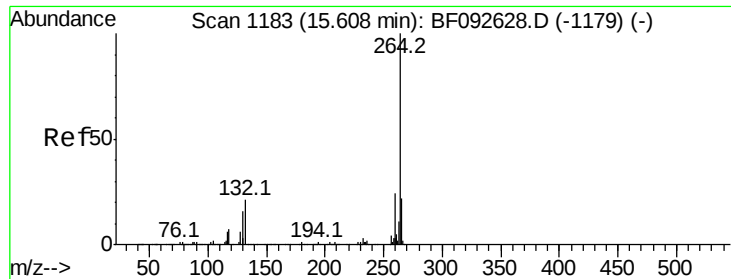
Delta R.T. 0.01 min

Lab File: BF093395.D

Acq: 4 Mar 2017 9:49

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 244   | Resp: | 170050 |
| Ion Ratio | Lower | Upper |        |
| 244       | 100   |       |        |
| 212       | 8.4   | 6.2   | 9.2    |
| 122       | 13.4  | 11.4  | 17.2   |





#86  
 Pervlene-d12  
 Concen: 20.00 ng  
 RT: 15.39 min Scan# 1164  
 Delta R.T. 0.03 min  
 Lab File: BF093395.D  
 Acq: 4 Mar 2017 9:49

Instrument :  
 BNA\_F  
 ClientSampleId :  
 5B-17

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 25.3  | 19.2  | 28.8  |
| 265     | 22.6  | 17.4  | 26.0  |

Manual Integrations  
 APPROVED

mohammad  
 3/6/2017 4:24:05 PM

