

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF051719\  
 Data File : BF114377.D  
 Acq On : 18 May 2019 4:15  
 Operator : JU/SJ  
 Sample : K2894-08DL 2X  
 Misc :  
 ALS Vial : 37 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-06-3-4DL

Manual Integrations  
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 5/21/2019 2:16:52 PM

Quant Time: May 18 06:45:53 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF051019.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri May 10 15:56:46 2019  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min)    |
|-----------------------------|-------|------|----------|--------|-------|-------------|
| 1) 1,4-Dichlorobenzene-d4   | 6.85  | 152  | 175095   | 20.00  | ng    | 0.00        |
| 21) Naphthalene-d8          | 8.13  | 136  | 722796   | 20.00  | ng    | 0.00        |
| 39) Acenaphthene-d10        | 9.89  | 164  | 364791   | 20.00  | ng    | 0.00        |
| 64) Phenanthrene-d10        | 11.37 | 188  | 722401   | 20.00  | ng    | 0.00        |
| 76) Chrysene-d12            | 14.02 | 240  | 468635   | 20.00  | ng    | 0.00        |
| 87) Perylene-d12            | 15.50 | 264  | 395827   | 20.00  | ng    | 0.00        |
| System Monitoring Compounds |       |      |          |        |       |             |
| 5) 2-Fluorophenol           | 5.47  | 112  | 425496   | 39.11  | ng    | 0.00        |
| 7) Phenol-d6                | 6.49  | 99   | 600953   | 46.70  | ng    | 0.00        |
| 23) Nitrobenzene-d5         | 7.40  | 82   | 277823   | 21.57  | ng    | -0.01       |
| 42) 2,4,6-Tribromophenol    | 10.67 | 330  | 144014   | 38.19  | ng    | 0.00        |
| 45) 2-Fluorobiphenyl        | 9.20  | 172  | 649996   | 26.95  | ng    | 0.00        |
| 79) Terphenyl-d14           | 12.95 | 244  | 609230   | 26.80  | ng    | 0.00        |
| Target Compounds            |       |      |          |        |       |             |
| 32) Benzoic acid            | 7.92  | 122  | 1233     | 7.168  | ng    | Qvalue # 84 |
| 50) Dimethylphthalate       | 9.59  | 163  | 129131   | 4.822  | ng    | 99          |
| 71) Phenanthrene            | 11.40 | 178  | 445980   | 12.689 | ng    | 96          |
| 72) Anthracene              | 11.45 | 178  | 95117    | 2.694  | ng    | 99          |
| 75) Fluoranthene            | 12.59 | 202  | 783240   | 20.695 | ng    | 99          |
| 78) Pyrene                  | 12.82 | 202  | 703369   | 18.657 | ng    | 97          |
| 81) Benzo(a)anthracene      | 14.01 | 228  | 336836   | 11.113 | ng    | 99          |
| 83) Chrysene                | 14.04 | 228  | 326899   | 11.002 | ng    | 98          |
| 86) Indeno(1,2,3-cd)pyrene  | 16.98 | 276  | 137765   | 5.246  | ng    | 95          |
| 88) Benzo(b)fluoranthene    | 15.06 | 252  | 366031m  | 14.434 | ng    |             |
| 89) Benzo(k)fluoranthene    | 15.09 | 252  | 117689m  | 5.052  | ng    |             |
| 90) Benzo(a)pyrene          | 15.43 | 252  | 237203   | 10.628 | ng    | 97          |
| 91) Dibenzo(a,h)anthracene  | 16.98 | 278  | 39974    | 2.155  | ng    | # 65        |
| 92) Benzo(g,h,i)perylene    | 17.43 | 276  | 138386   | 7.446  | ng    | 97          |

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

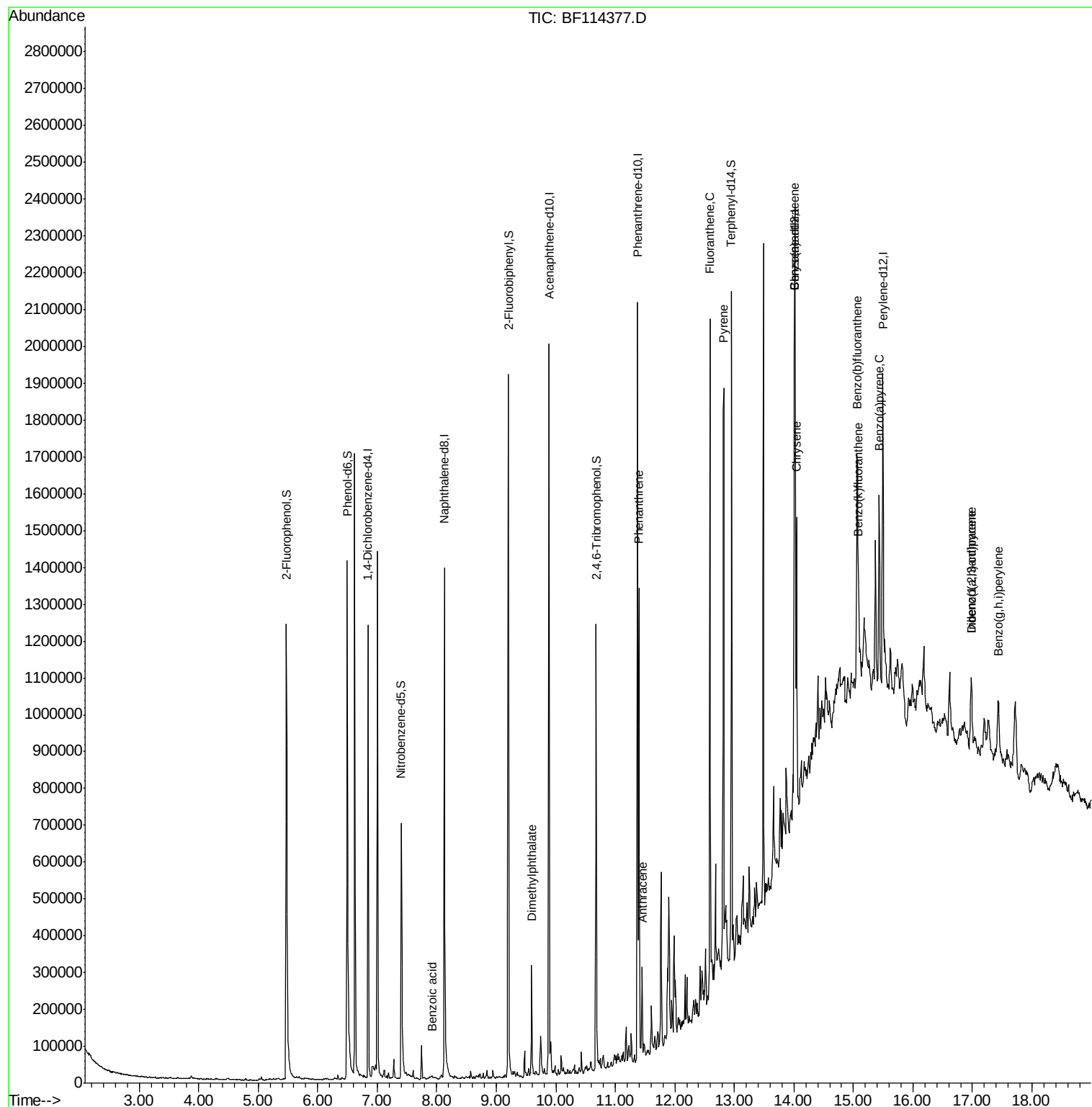
Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF051719\  
Data File : BF114377.D  
Acq On : 18 May 2019 4:15  
Operator : JU/SJ  
Sample : K2894-08DL 2X  
Misc :  
ALS Vial : 37 Sample Multiplier: 1

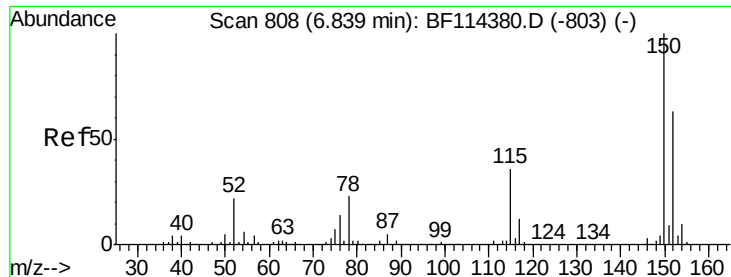
Instrument :  
BNA\_F  
ClientSampleId :  
SB-06-3-4DL

Manual Integrations  
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Quant Time: May 18 06:45:53 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF051019.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri May 10 15:56:46 2019  
Response via : Initial Calibration





#1

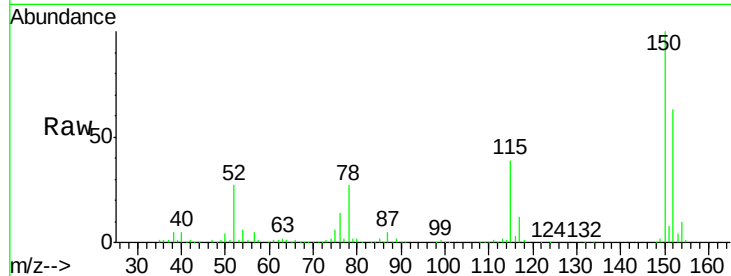
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.85 min Scan# 809  
Delta R.T. -0.01 min  
Lab File: BF114377.D  
Acq: 18 May 2019 4:15

Instrument :  
BNA\_F  
ClientSampleId :  
SB-06-3-4DL

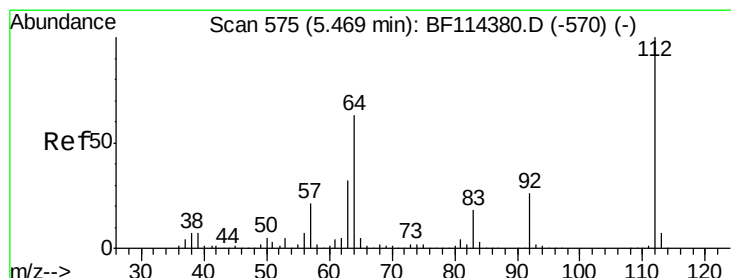
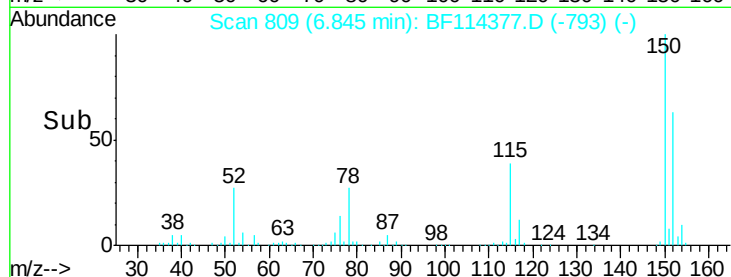
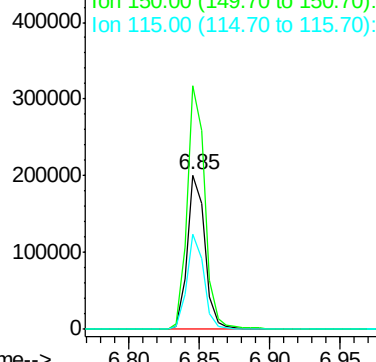
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 157.7 | 124.3 | 186.5 |
| 115     | 61.2  | 49.1  | 73.7  |

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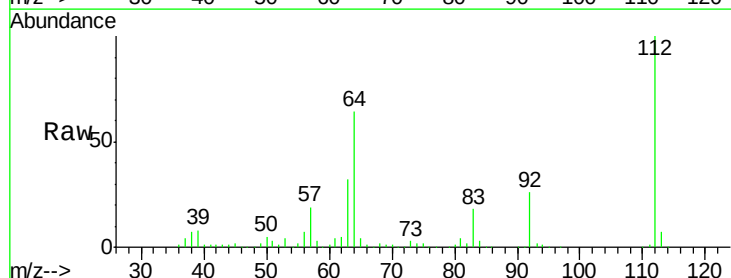
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



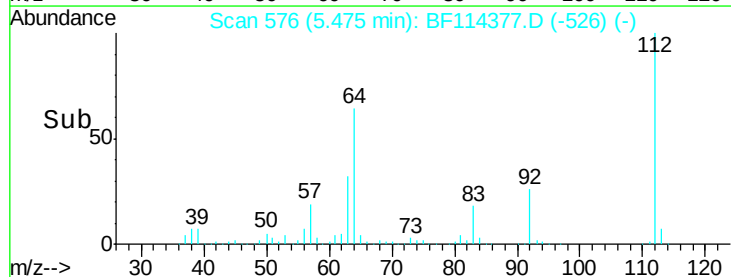
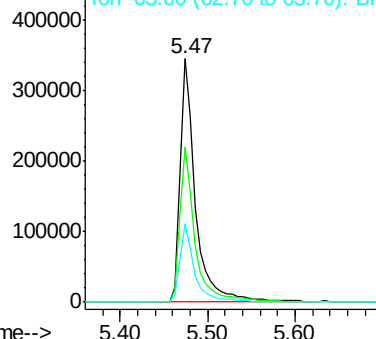
#5

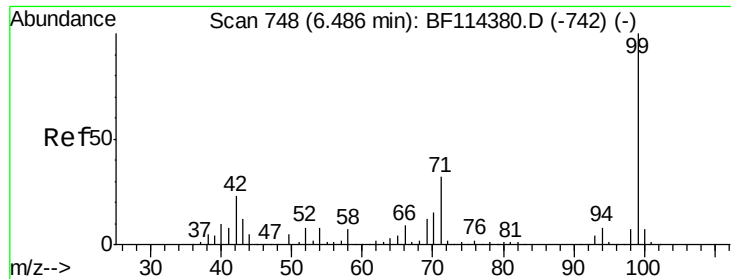
2-Fluorophenol  
Concen: 39.106 ng  
RT: 5.47 min Scan# 576  
Delta R.T. -0.01 min  
Lab File: BF114377.D  
Acq: 18 May 2019 4:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 63.7  | 49.0  | 73.6  |
| 63      | 32.0  | 24.6  | 37.0  |



Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BF1  
Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 46.699 ng

RT: 6.49 min Scan# 749

Delta R.T. -0.00 min

Lab File: BF114377.D

Acq: 18 May 2019 4:15

Instrument :

BNA\_F

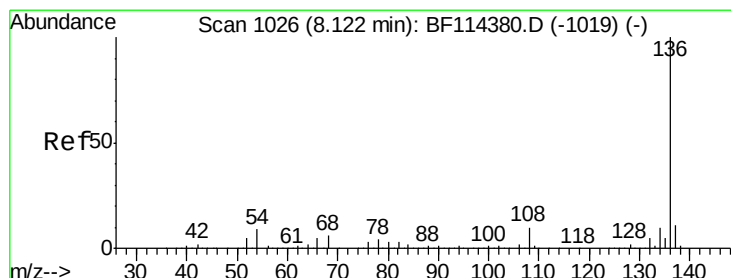
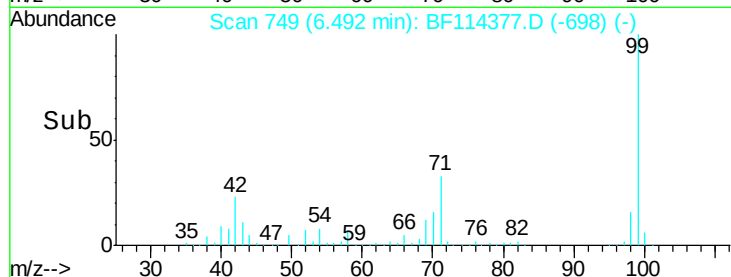
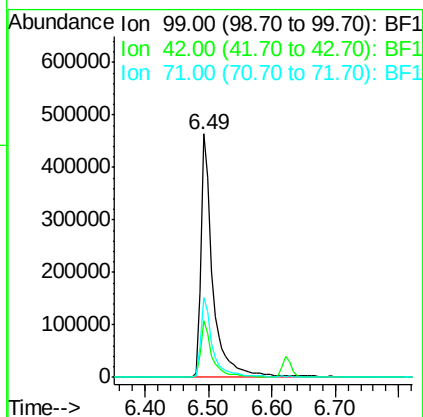
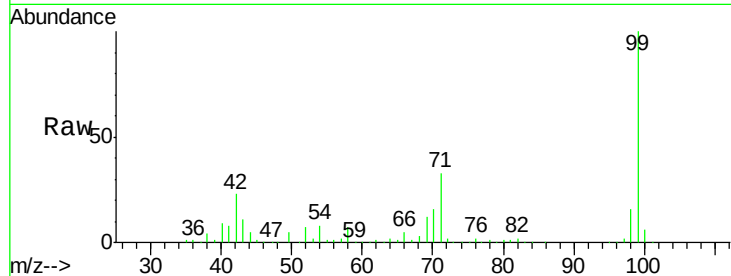
ClientSampleId :

SB-06-3-4DL

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 99    | Resp: | 600953 |
| Ion Ratio | Lower | Upper |        |
| 99        | 100   |       |        |
| 42        | 23.1  | 17.9  | 26.9   |
| 71        | 32.7  | 26.2  | 39.2   |

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#21

Naphthalene-d8

Concen: 20.000 ng

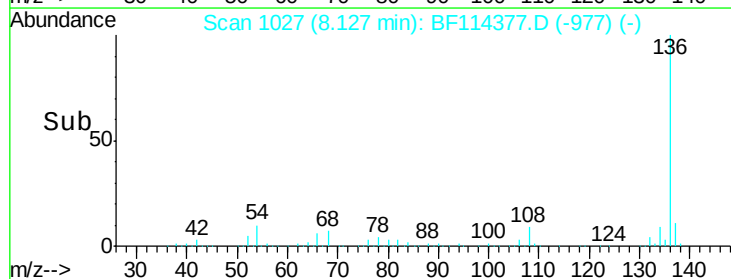
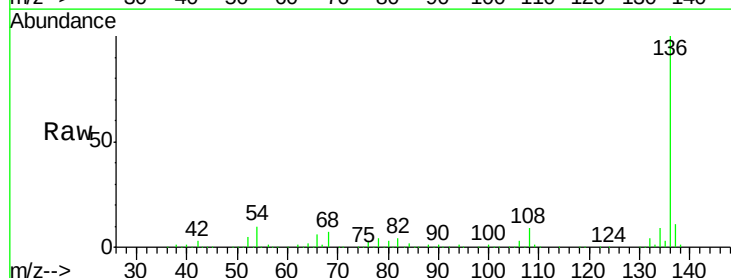
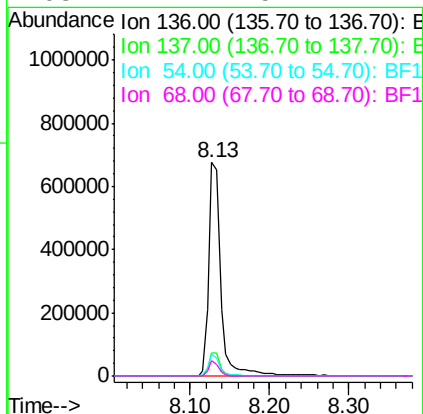
RT: 8.13 min Scan# 1027

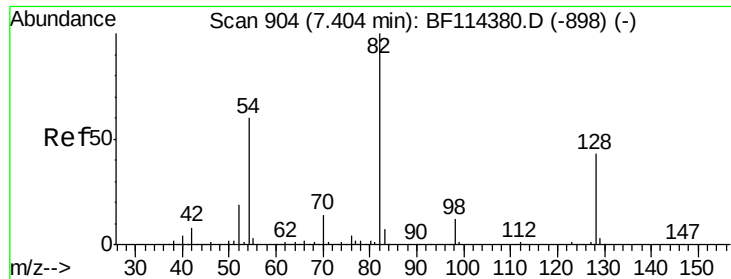
Delta R.T. -0.01 min

Lab File: BF114377.D

Acq: 18 May 2019 4:15

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 136   | Resp: | 722796 |
| Ion Ratio | Lower | Upper |        |
| 136       | 100   |       |        |
| 137       | 11.0  | 8.8   | 13.2   |
| 54        | 10.5  | 7.8   | 11.8   |
| 68        | 7.1   | 5.1   | 7.7    |





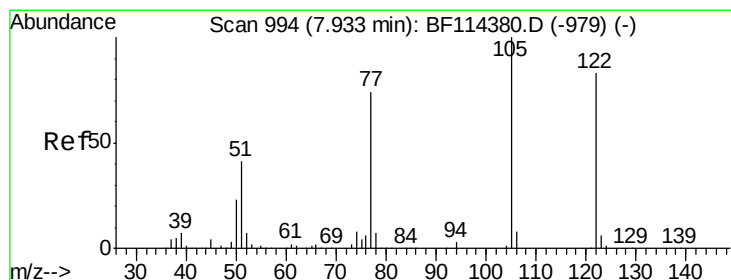
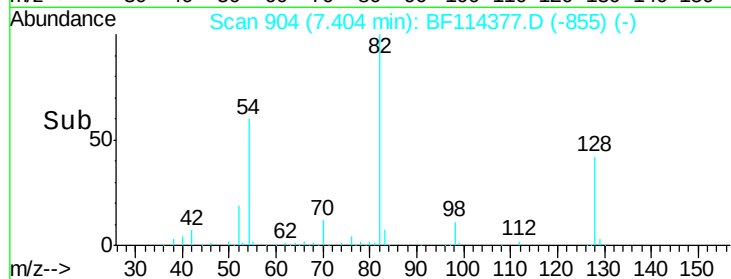
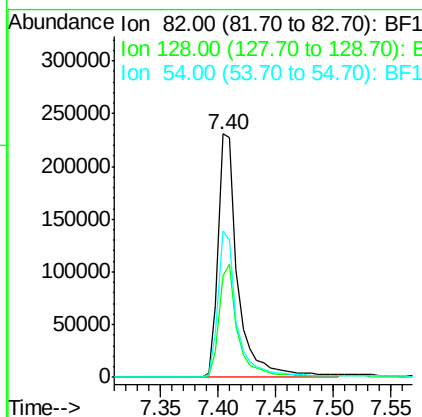
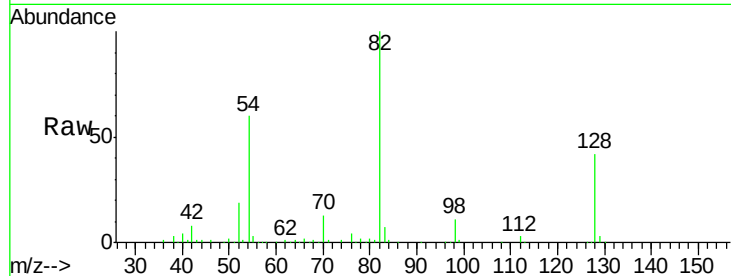
#23  
 Nitrobenzene-d5  
 Concen: 21.571 ng  
 RT: 7.40 min Scan# 904  
 Delta R.T. -0.01 min  
 Lab File: BF114377.D  
 Acq: 18 May 2019 4:15

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-06-3-4DL

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 82      | 100   | 277823 |       |       |
| 128     | 41.9  | 35.5   | 53.3  |       |
| 54      | 60.0  | 48.5   | 72.7  |       |

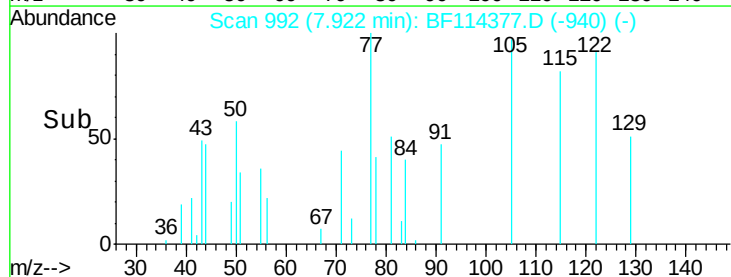
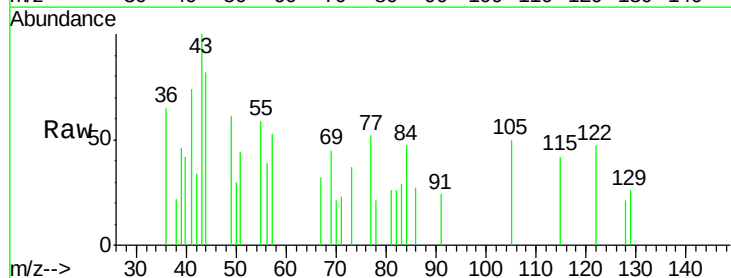
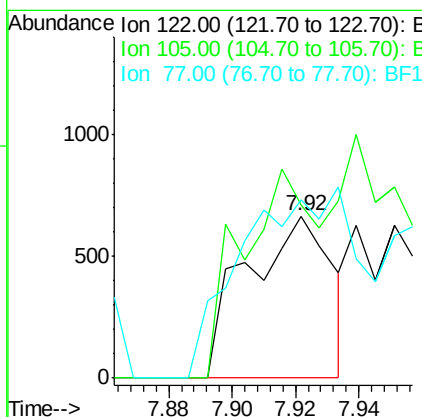
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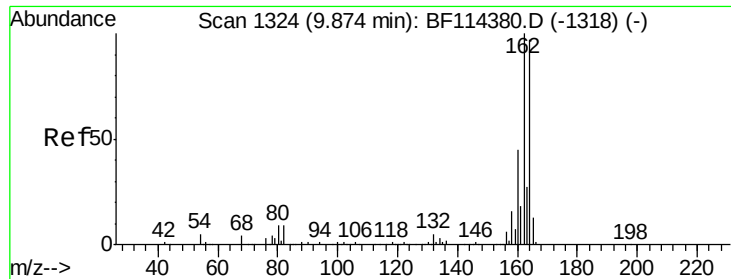
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#32  
 Benzoic acid  
 Concen: 7.168 ng  
 RT: 7.92 min Scan# 992  
 Delta R.T. 0.01 min  
 Lab File: BF114377.D  
 Acq: 18 May 2019 4:15

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 122     | 100   | 1233 |       |       |
| 105     | 106.9 | 99.9 | 139.9 |       |
| 77      | 109.8 | 69.4 | 109.4 |       |





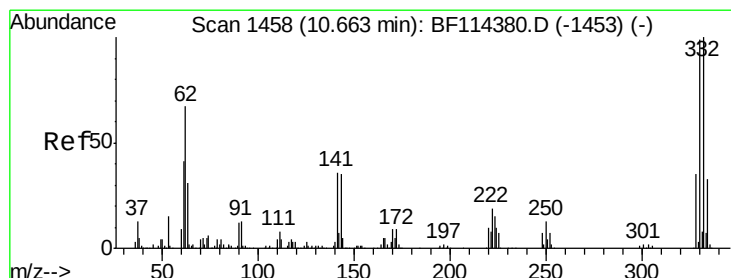
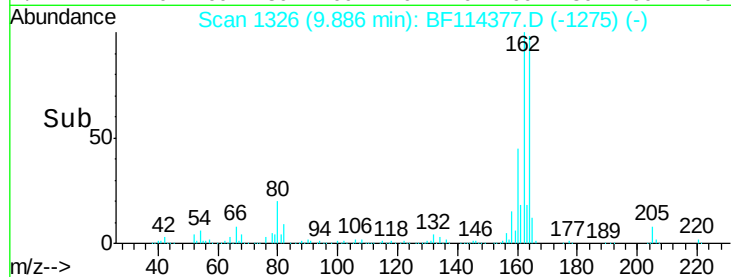
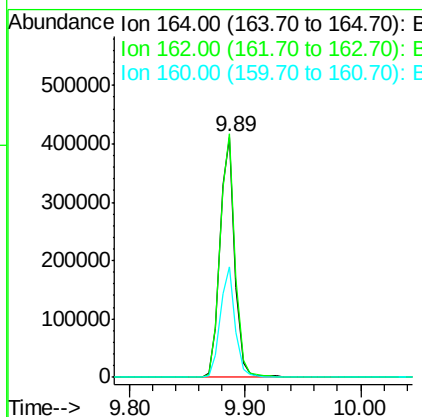
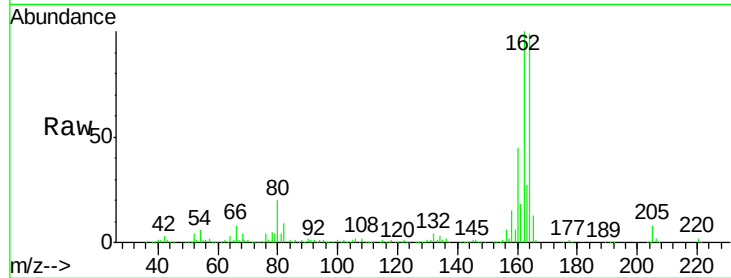
#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.89 min Scan# 1326  
Delta R.T. -0.00 min  
Lab File: BF114377.D  
Acq: 18 May 2019 4:15

Instrument :  
BNA\_F  
ClientSampled :  
SB-06-3-4DL

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 164     | 100   | 364791 |       |       |
| 162     | 101.3 | 80.6   | 120.8 |       |
| 160     | 45.7  | 36.5   | 54.7  |       |

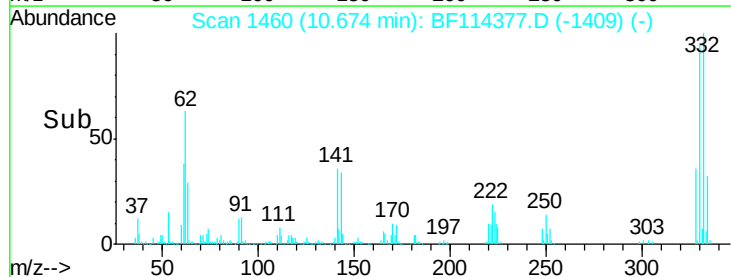
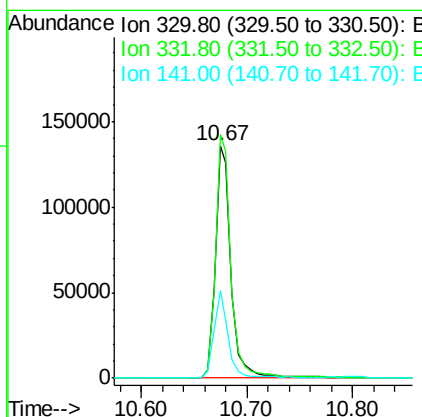
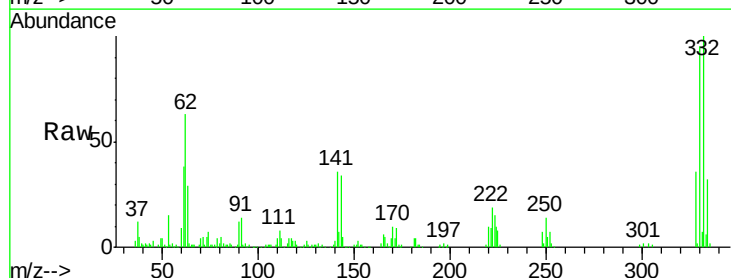
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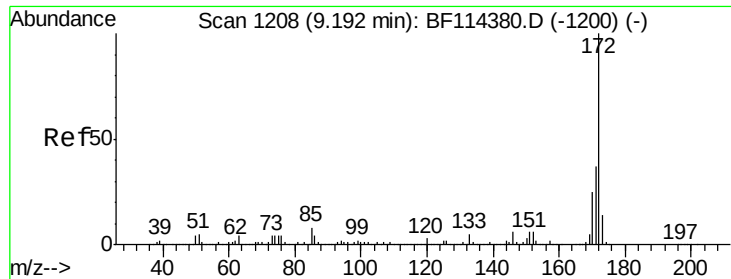
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#42  
2,4,6-Tribromophenol  
Concen: 38.187 ng  
RT: 10.67 min Scan# 1460  
Delta R.T. -0.00 min  
Lab File: BF114377.D  
Acq: 18 May 2019 4:15

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 330     | 100   | 144014 |       |       |
| 332     | 102.8 | 81.4   | 122.2 |       |
| 141     | 33.2  | 26.6   | 40.0  |       |





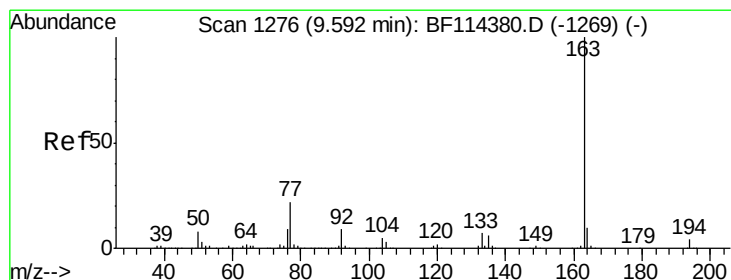
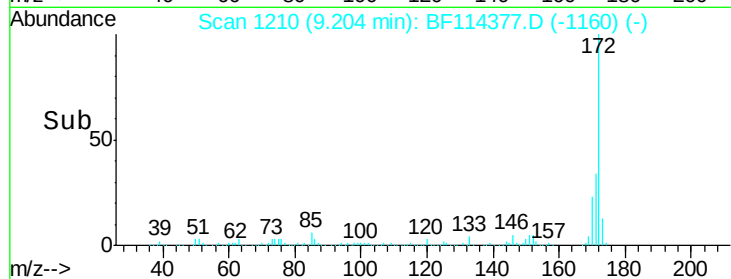
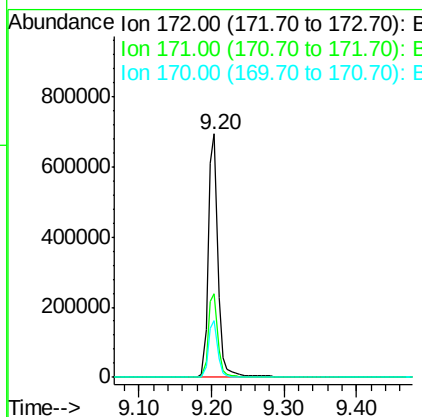
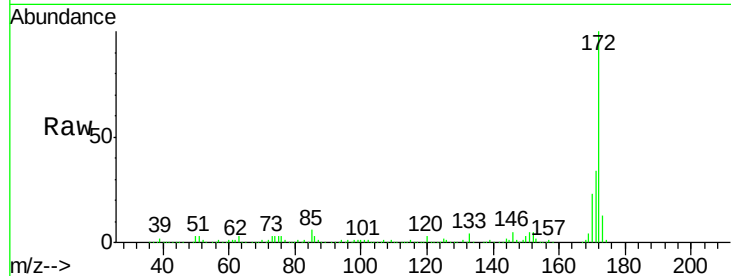
#45  
2-Fluorobiphenyl  
Concen: 26.953 ng  
RT: 9.20 min Scan# 1210  
Delta R.T. -0.01 min  
Lab File: BF114377.D  
Acq: 18 May 2019 4:15

Instrument :  
BNA\_F  
ClientSampleId :  
SB-06-3-4DL

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 172     | 100   | 649996 |       |       |
| 171     | 34.5  |        | 30.7  | 46.1  |
| 170     | 23.2  |        | 20.5  | 30.7  |

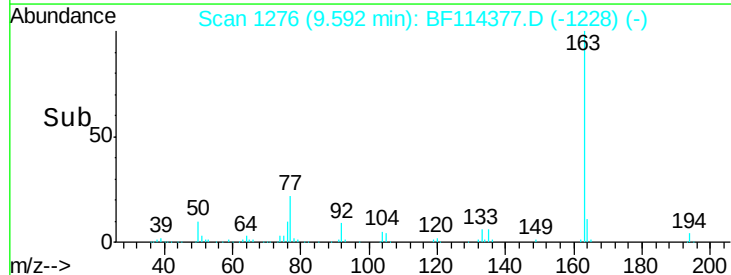
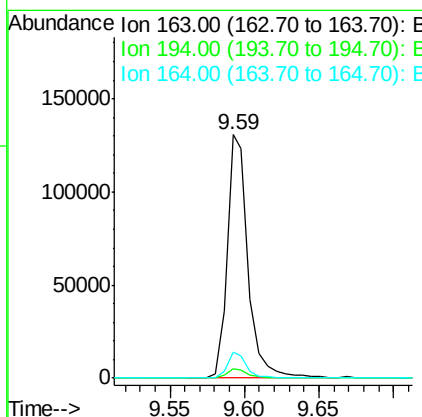
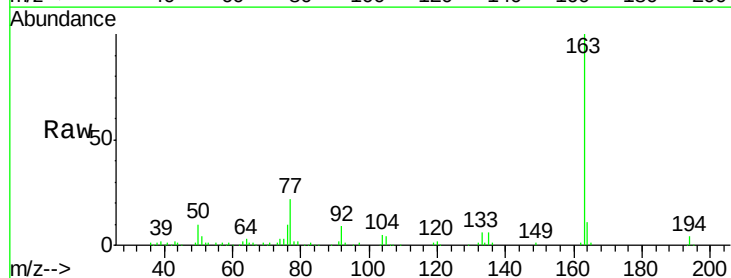
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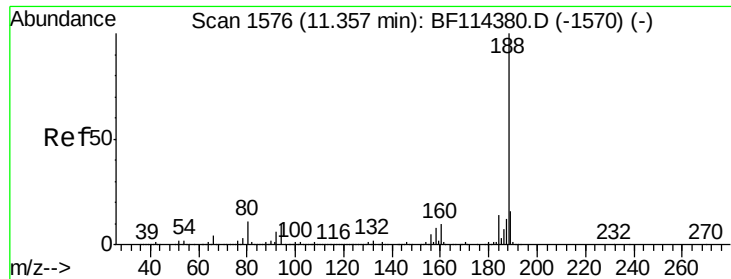
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#50  
Dimethylphthalate  
Concen: 4.822 ng  
RT: 9.59 min Scan# 1276  
Delta R.T. -0.02 min  
Lab File: BF114377.D  
Acq: 18 May 2019 4:15

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 163     | 100   | 129131 |       |       |
| 194     | 3.8   |        | 3.4   | 5.0   |
| 164     | 10.7  |        | 8.2   | 12.2  |





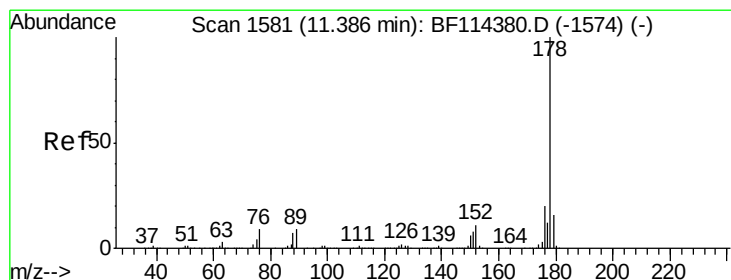
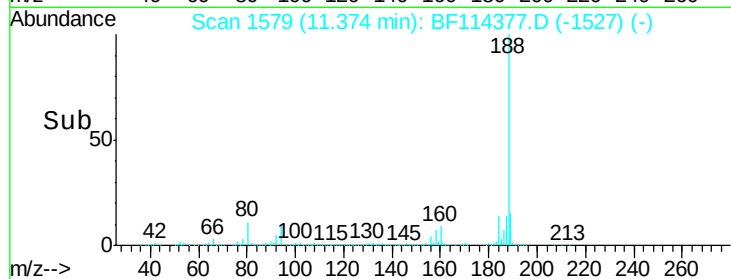
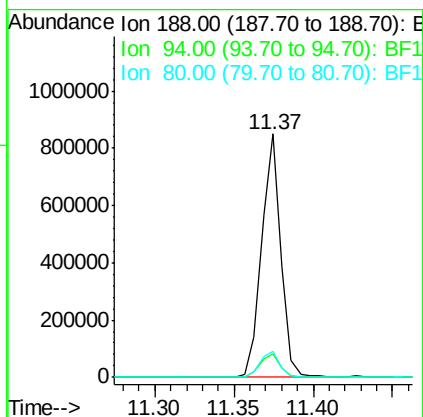
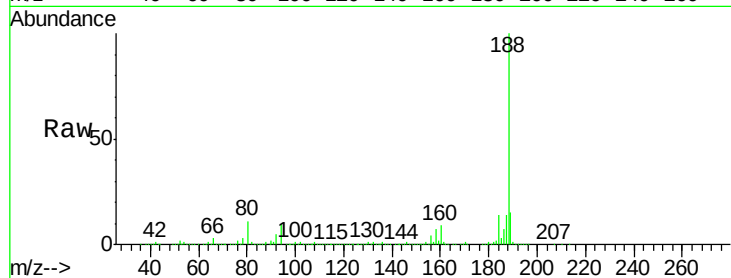
#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.37 min Scan# 1579  
Delta R.T. 0.01 min  
Lab File: BF114377.D  
Acq: 18 May 2019 4:15

Instrument :  
BNA\_F  
ClientSampled :  
SB-06-3-4DL

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 188   | Resp: | 722401 |
| Ion Ratio | Lower | Upper |        |
| 188       | 100   |       |        |
| 94        | 9.6   | 8.4   | 12.6   |
| 80        | 10.5  | 9.2   | 13.8   |

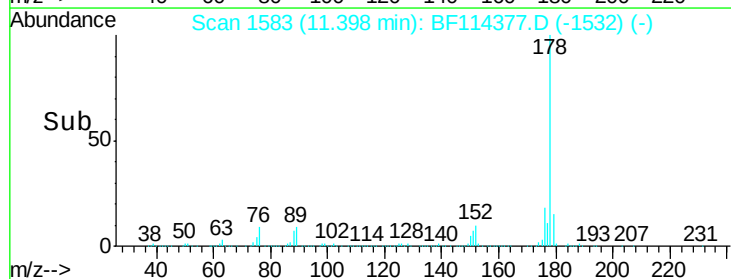
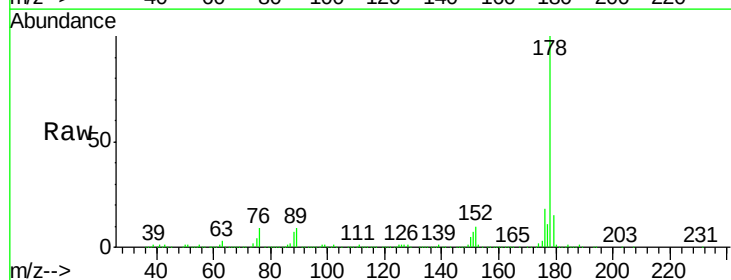
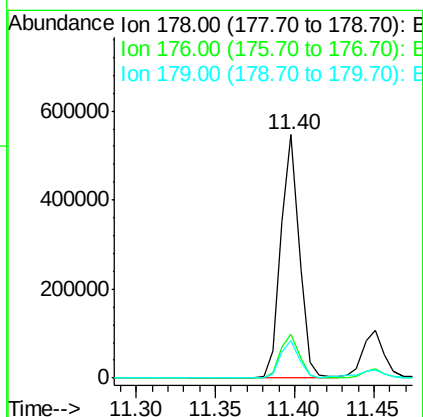
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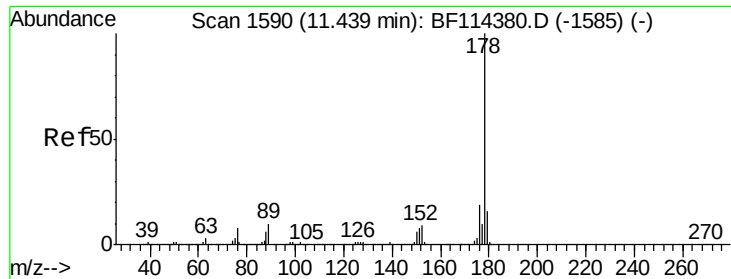


#71  
Phenanthrene  
Concen: 12.689 ng  
RT: 11.40 min Scan# 1583  
Delta R.T. -0.00 min  
Lab File: BF114377.D  
Acq: 18 May 2019 4:15

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 178   | Resp: | 445980 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 176       | 18.1  | 16.4  | 24.6   |
| 179       | 15.3  | 13.2  | 19.8   |







#72

Anthracene

Concen: 2.694 ng

RT: 11.45 min Scan# 1592

Delta R.T. -0.00 min

Lab File: BF114377.D

Acq: 18 May 2019 4:15

Instrument :

BNA\_F

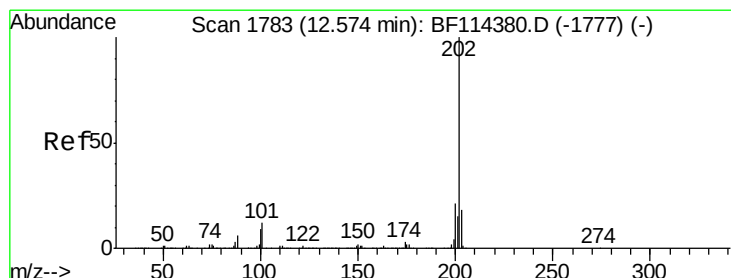
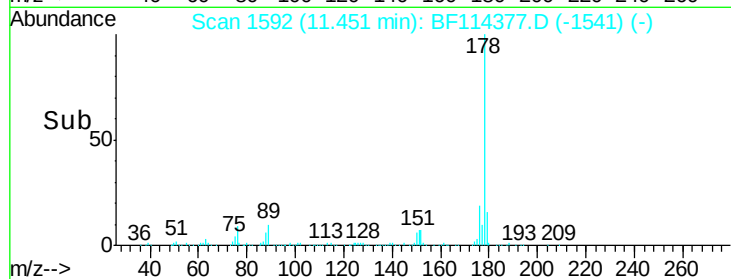
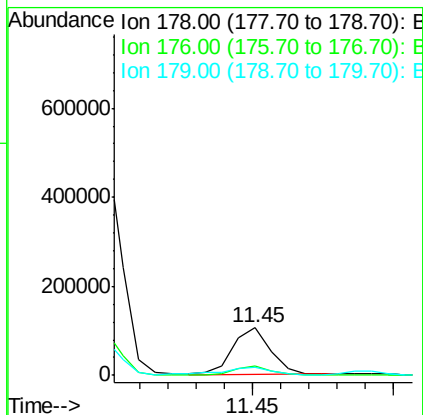
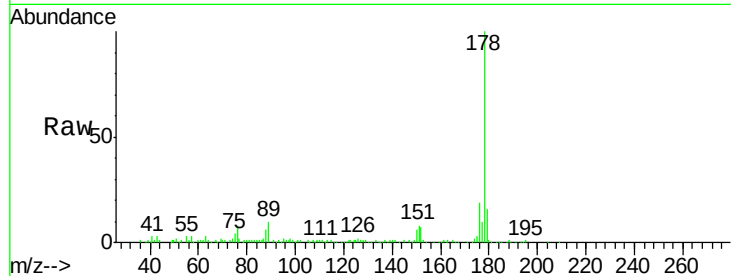
ClientSampleId :

SB-06-3-4DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 178   | Resp: | 95117 |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 176       | 18.6  | 15.8  | 23.8  |
| 179       | 16.2  | 13.0  | 19.4  |

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#75

Fluoranthene

Concen: 20.695 ng

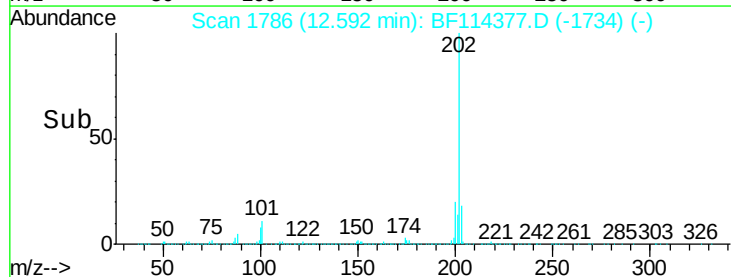
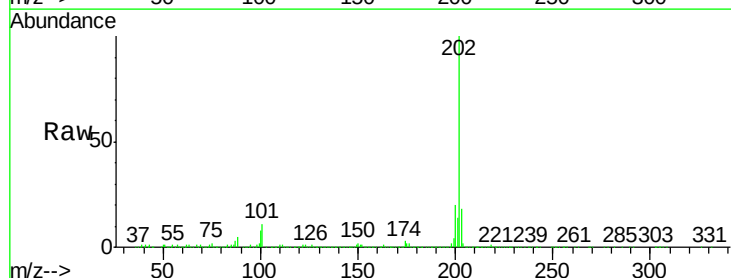
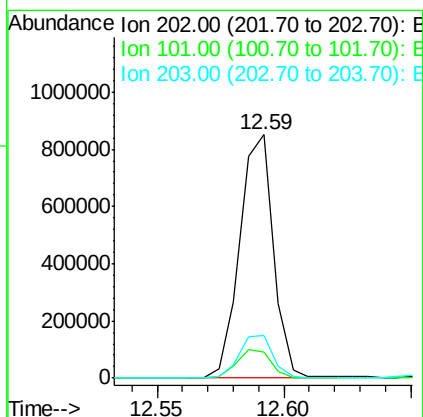
RT: 12.59 min Scan# 1786

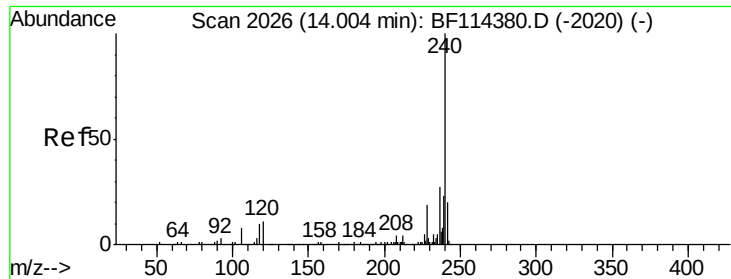
Delta R.T. 0.01 min

Lab File: BF114377.D

Acq: 18 May 2019 4:15

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 783240 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 10.6  | 0.0   | 31.0   |
| 203       | 17.6  | 0.0   | 38.4   |





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.02 min Scan# 2029

Delta R.T. -0.00 min

Lab File: BF114377.D

Acq: 18 May 2019 4:15

Instrument :

BNA\_F

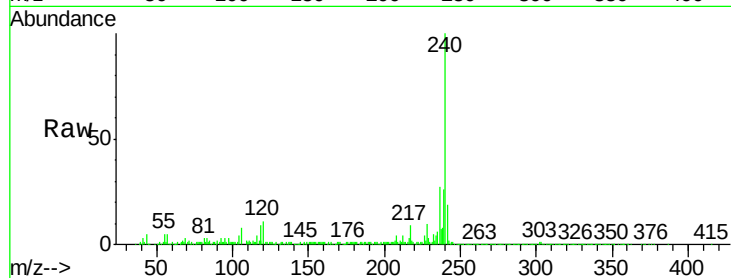
ClientSampleId :

SB-06-3-4DL

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 240     | 100   | 468635 |       |       |
| 120     | 11.0  | 8.3    | 12.5  |       |
| 236     | 27.0  | 20.8   | 31.2  |       |

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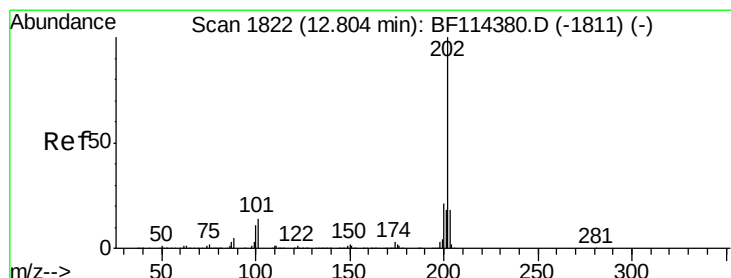
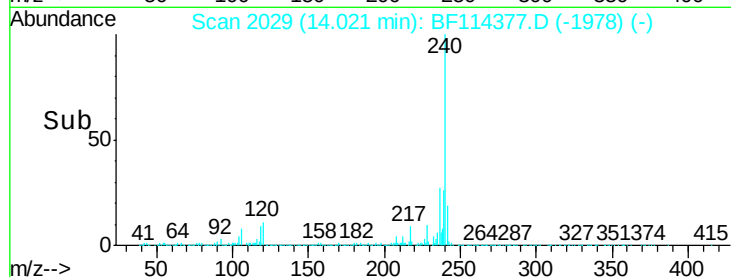
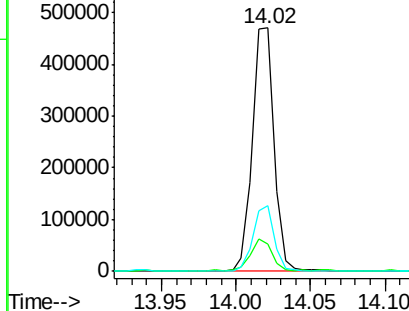
mohammad  
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Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#78

Pyrene

Concen: 18.657 ng

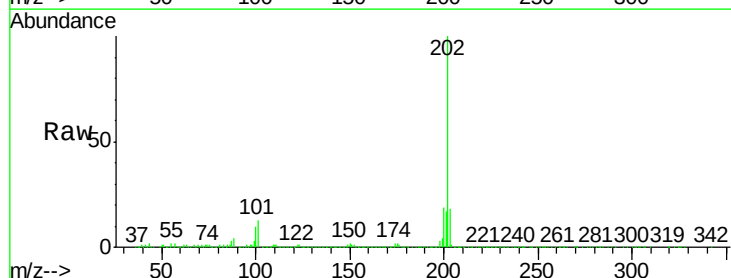
RT: 12.82 min Scan# 1825

Delta R.T. 0.01 min

Lab File: BF114377.D

Acq: 18 May 2019 4:15

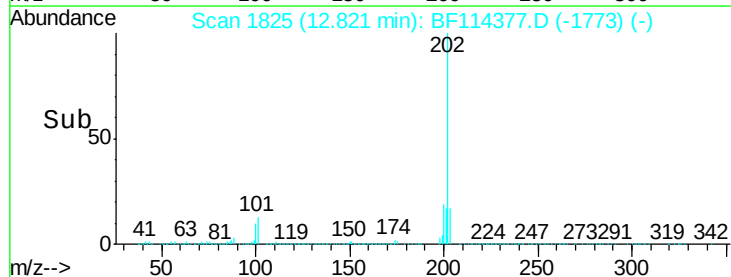
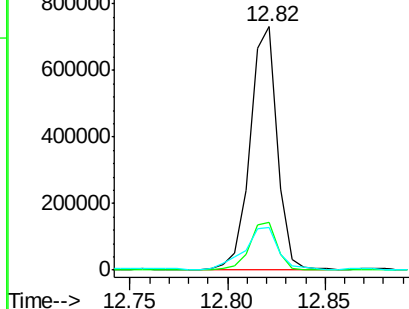
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 202     | 100   | 703369 |       |       |
| 200     | 19.4  | 16.9   | 25.3  |       |
| 203     | 17.5  | 14.5   | 21.7  |       |

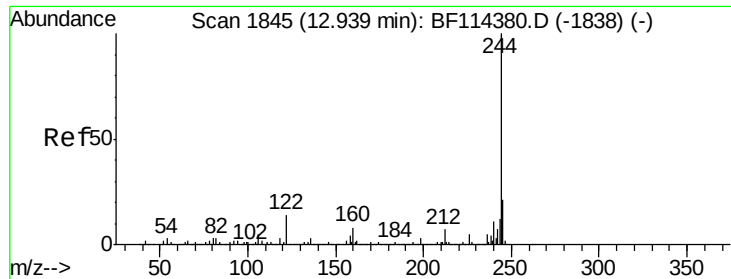


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#79

Terphenyl-d14

Concen: 26.799 ng

RT: 12.95 min Scan# 1847

Delta R.T. -0.01 min

Lab File: BF114377.D

Acq: 18 May 2019 4:15

Instrument :

BNA\_F

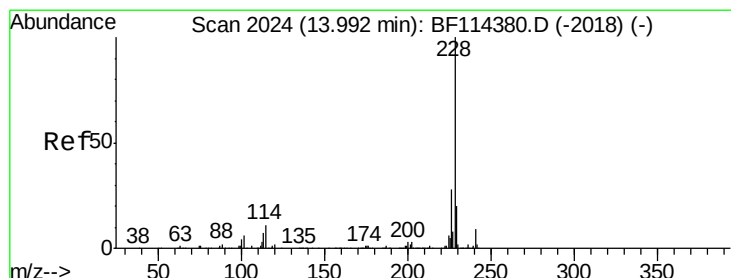
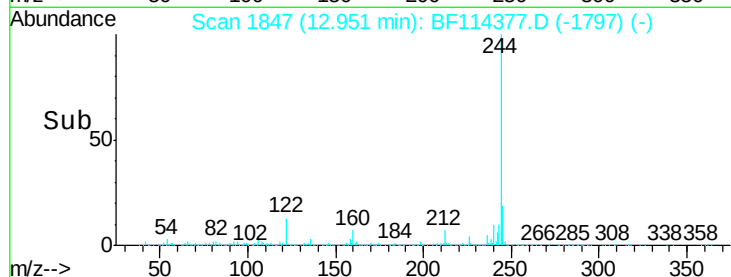
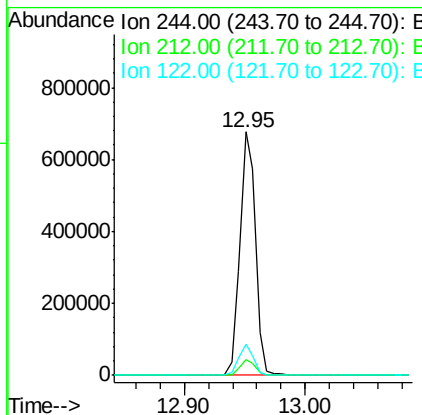
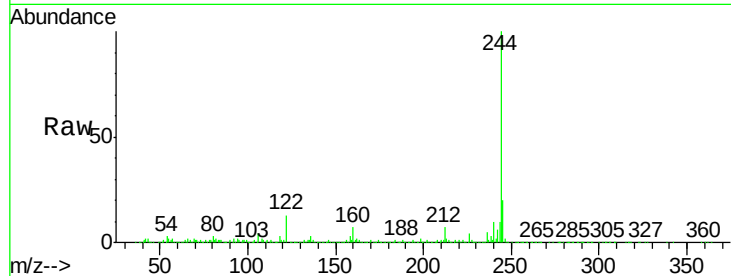
ClientSampled :

SB-06-3-4DL

|           |      |       |        |
|-----------|------|-------|--------|
| Tgt Ion:  | 244  | Resp: | 609230 |
| Ion Ratio |      | Lower | Upper  |
| 244       | 100  |       |        |
| 212       | 6.6  | 5.8   | 8.6    |
| 122       | 12.6 | 9.4   | 14.2   |

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#81

Benzo(a)anthracene

Concen: 11.113 ng

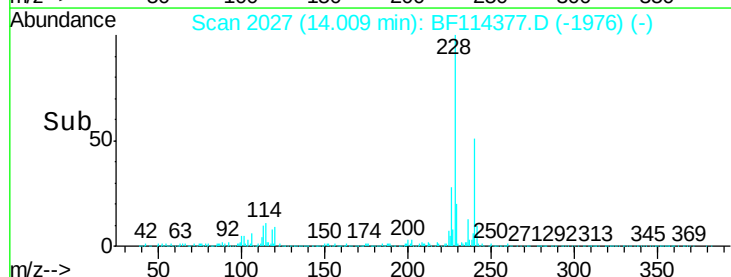
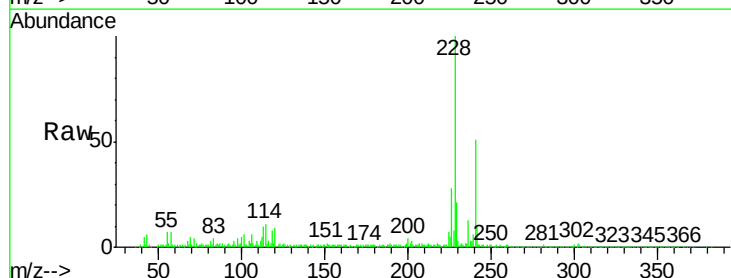
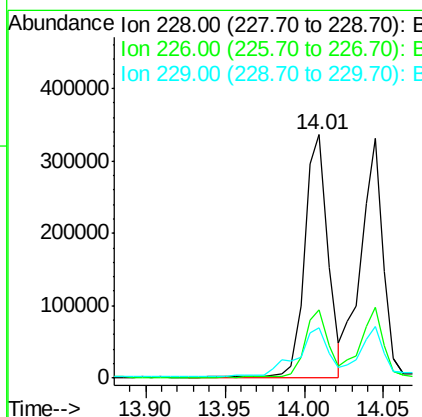
RT: 14.01 min Scan# 2027

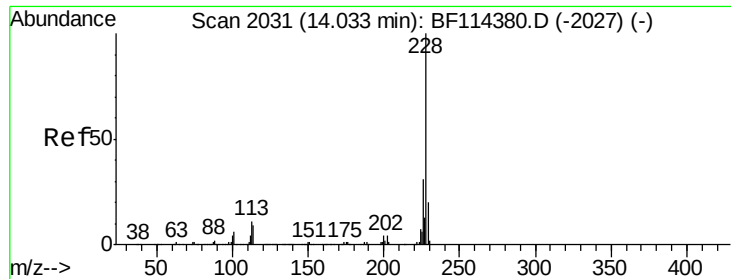
Delta R.T. -0.00 min

Lab File: BF114377.D

Acq: 18 May 2019 4:15

|           |      |       |        |
|-----------|------|-------|--------|
| Tgt Ion:  | 228  | Resp: | 336836 |
| Ion Ratio |      | Lower | Upper  |
| 228       | 100  |       |        |
| 226       | 28.2 | 22.2  | 33.2   |
| 229       | 20.7 | 16.4  | 24.6   |





#83

Chrysene

Concen: 11.002 ng

RT: 14.04 min Scan# 2033

Delta R.T. -0.00 min

Lab File: BF114377.D

Acq: 18 May 2019 4:15

Instrument :

BNA\_F

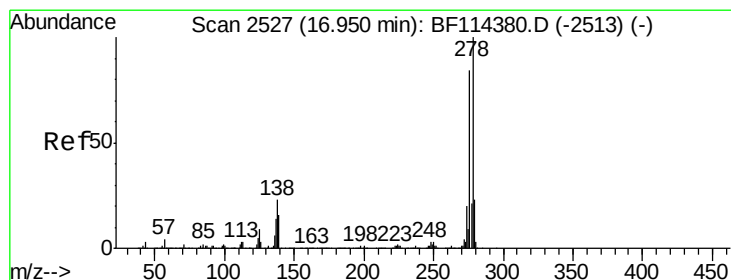
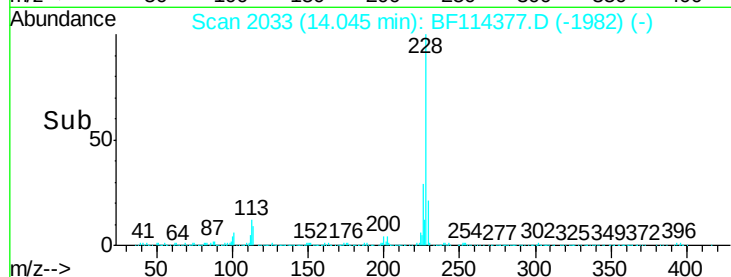
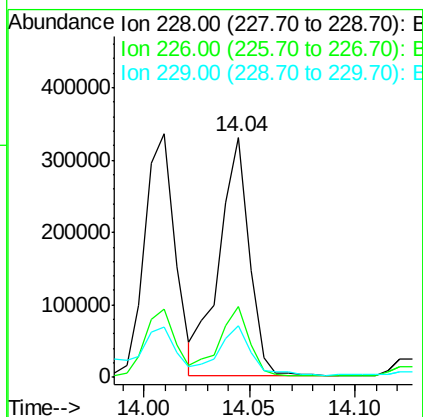
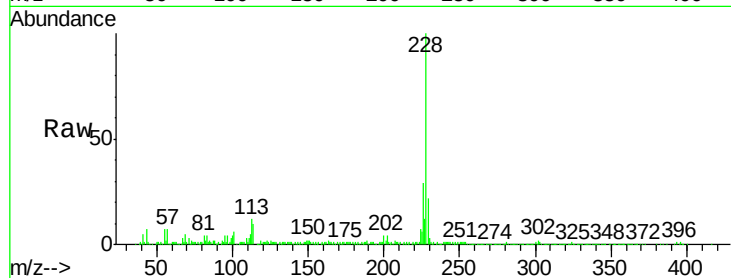
ClientSampleId :

SB-06-3-4DL

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 228   | Resp: | 326899 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 29.5  | 25.0  | 37.6   |
| 229       | 21.8  | 17.0  | 25.6   |

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#86

Indeno(1,2,3-cd)pyrene

Concen: 5.246 ng

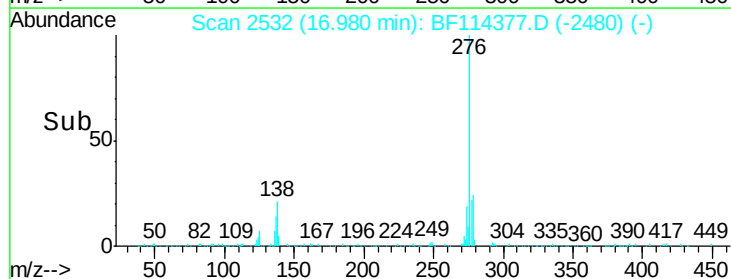
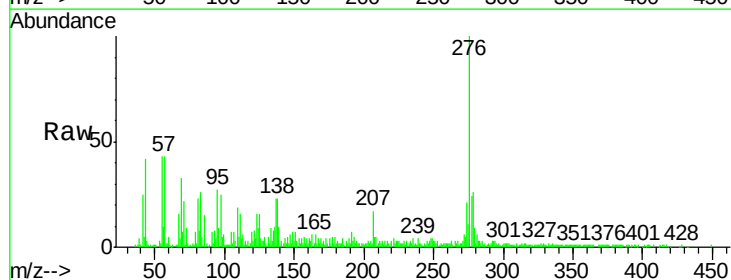
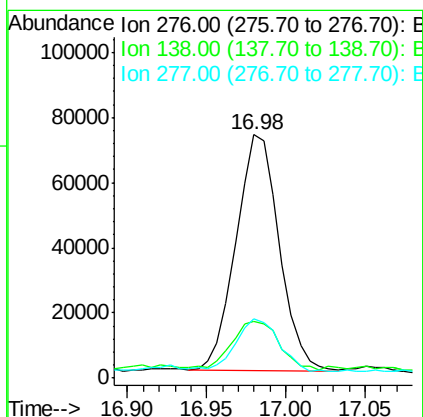
RT: 16.98 min Scan# 2532

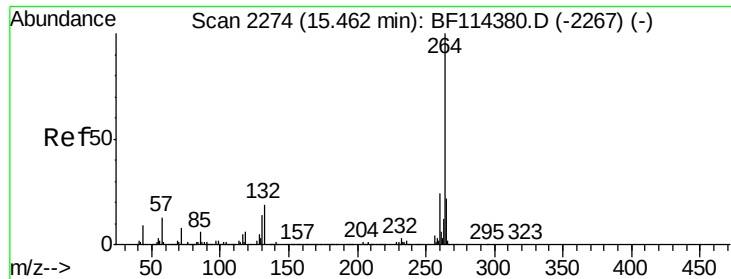
Delta R.T. 0.01 min

Lab File: BF114377.D

Acq: 18 May 2019 4:15

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 276   | Resp: | 137765 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 138       | 22.2  | 20.2  | 30.2   |
| 277       | 22.9  | 20.0  | 30.0   |





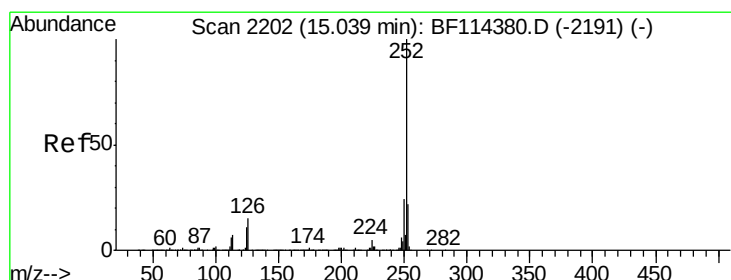
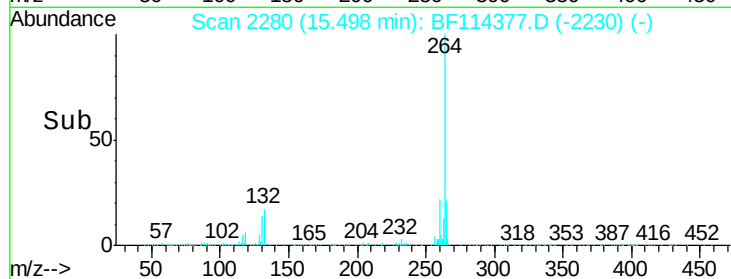
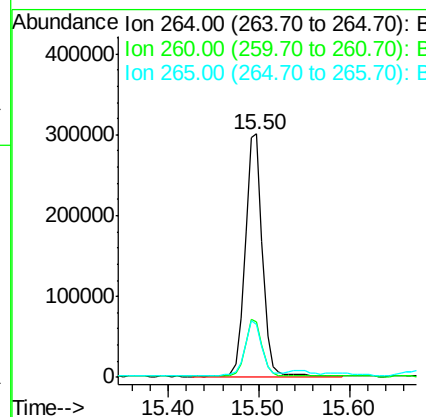
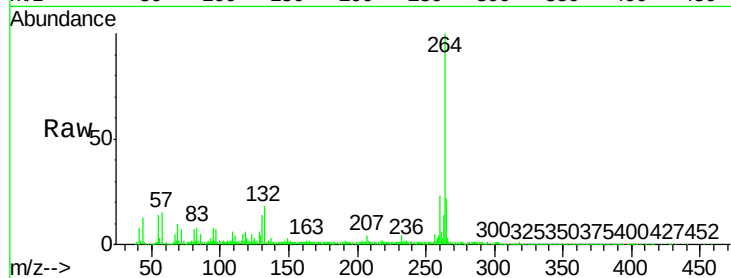
#87  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.50 min Scan# 2280  
Delta R.T. -0.01 min  
Lab File: BF114377.D  
Acq: 18 May 2019 4:15

Instrument :  
BNA\_F  
ClientSampleId :  
SB-06-3-4DL

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 264     | 100   |            |            |
| 260     | 22.8  | 19.4       | 29.0       |
| 265     | 22.0  | 16.9       | 25.3       |

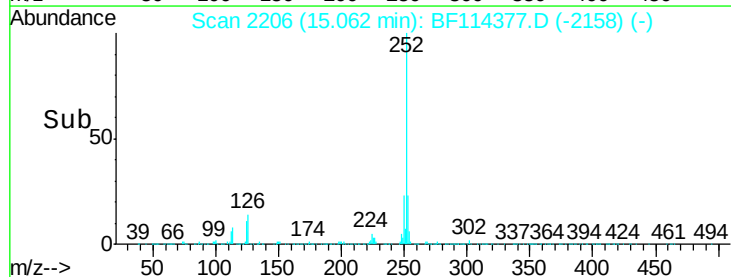
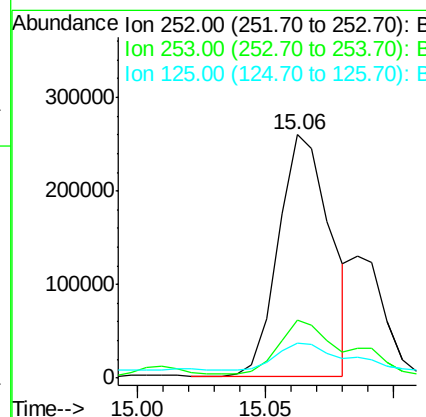
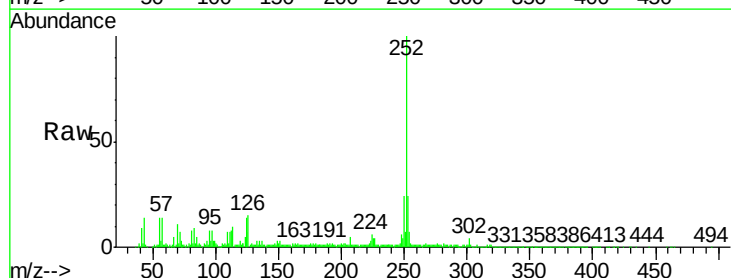
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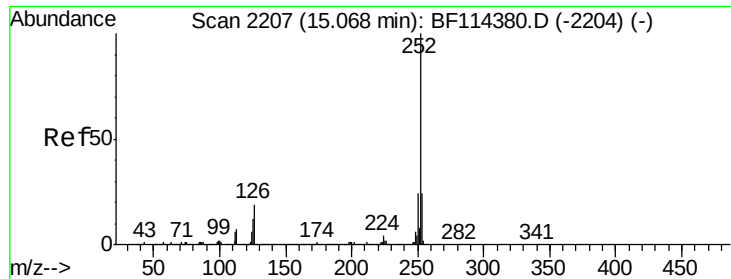
mohammad  
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#88  
Benzo(b)fluoranthene  
Concen: 14.434 ng m  
RT: 15.06 min Scan# 2206  
Delta R.T. -0.02 min  
Lab File: BF114377.D  
Acq: 18 May 2019 4:15

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 252     | 100   |            |            |
| 253     | 23.8  | 17.8       | 26.8       |
| 125     | 14.4  | 8.3        | 12.5#      |





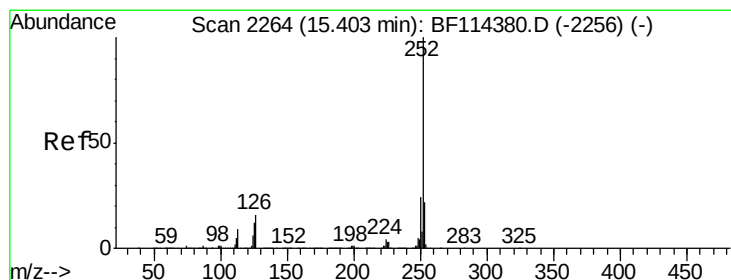
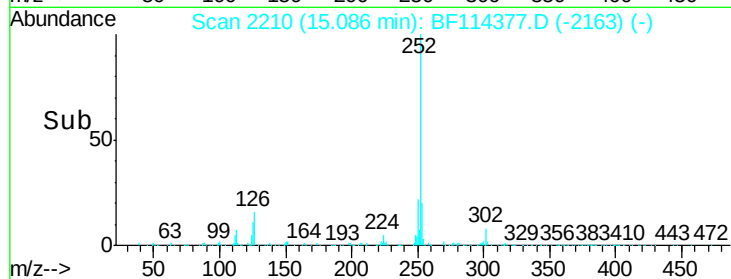
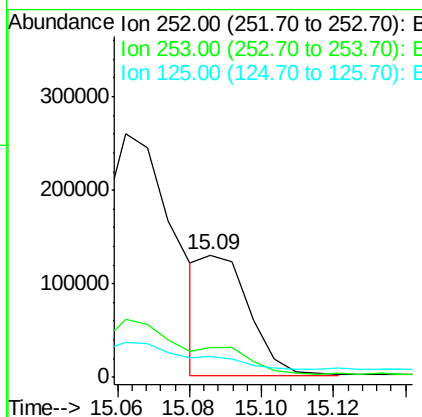
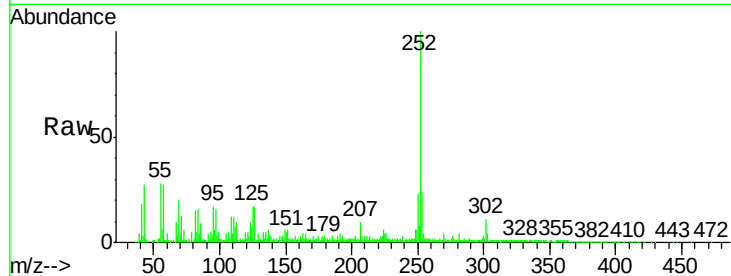
#89  
Benzo(k)fluoranthene  
Concen: 5.052 ng m  
RT: 15.09 min Scan# 2210  
Delta R.T. -0.02 min  
Lab File: BF114377.D  
Acq: 18 May 2019 4:15

Instrument :  
BNA\_F  
ClientSampleId :  
SB-06-3-4DL

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.4  | 18.2  | 27.2  |
| 125     | 17.0  | 8.6   | 13.0  |

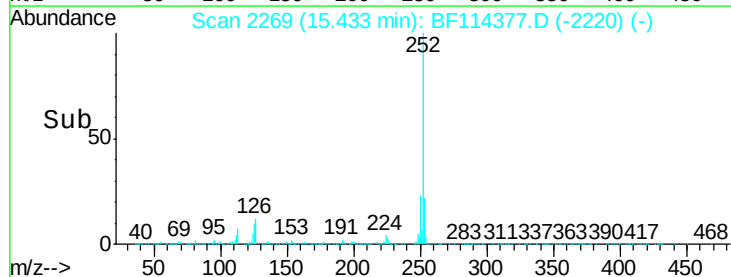
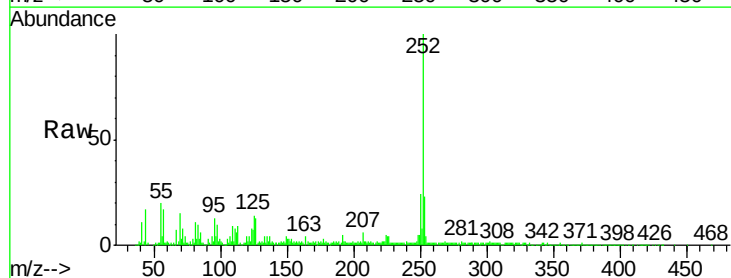
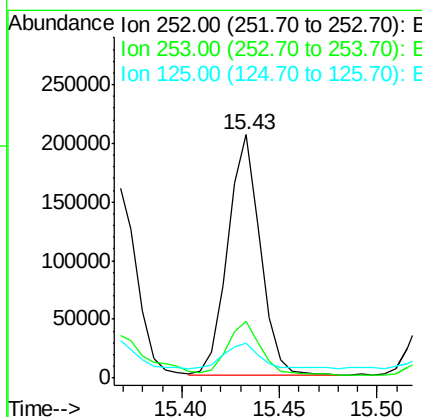
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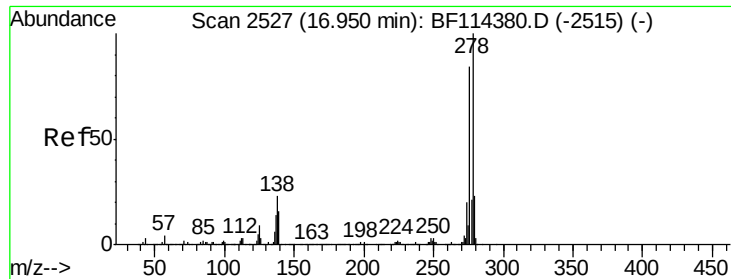
mohammad  
5/21/2019 2:16:52 PM



#90  
Benzo(a)pyrene  
Concen: 10.628 ng  
RT: 15.43 min Scan# 2269  
Delta R.T. -0.01 min  
Lab File: BF114377.D  
Acq: 18 May 2019 4:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.3  | 18.1  | 27.1  |
| 125     | 14.1  | 9.5   | 14.3  |





#91

Dibenzo(a,h)anthracene

Concen: 2.155 ng

RT: 16.98 min Scan# 2532

Delta R.T. -0.01 min

Lab File: BF114377.D

Acq: 18 May 2019 4:15

Instrument :

BNA\_F

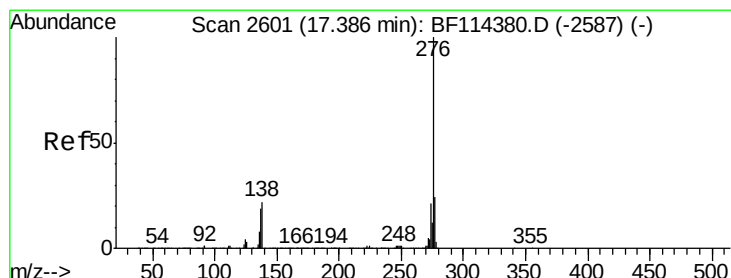
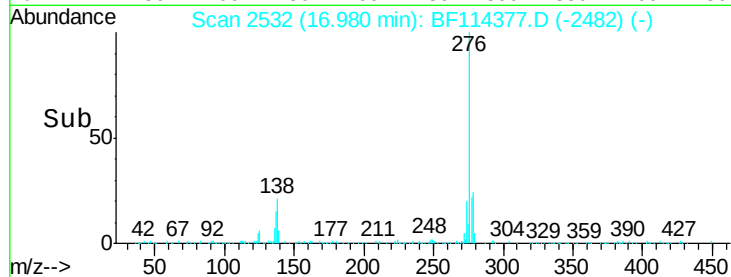
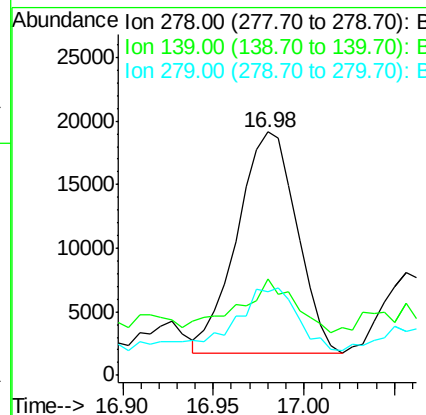
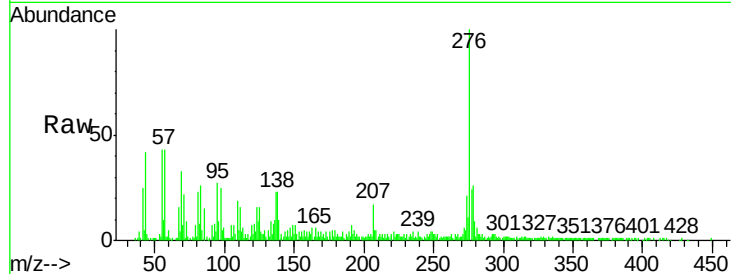
ClientSampleId :

SB-06-3-4DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 278   | Resp: | 39974 |
| Ion Ratio | Lower | Upper |       |
| 278       | 100   |       |       |
| 139       | 39.7  | 13.5  | 20.3# |
| 279       | 34.4  | 19.0  | 28.6# |

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#92

Benzo(g,h,i)perylene

Concen: 7.446 ng

RT: 17.43 min Scan# 2609

Delta R.T. 0.02 min

Lab File: BF114377.D

Acq: 18 May 2019 4:15

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 276   | Resp: | 138386 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 277       | 24.3  | 19.0  | 28.4   |
| 138       | 24.2  | 17.8  | 26.6   |

