

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF090619\  
 Data File : BF116862.D  
 Acq On : 6 Sep 2019 15:26  
 Operator : HP/JU  
 Sample : K4522-01  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SIDEWALL-4

Manual Integrations  
 APPROVED

mohammad  
 9/12/2019 9:11:42 AM

Quant Time: Sep 07 04:42:10 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF083019.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Aug 30 20:02:30 2019  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min)    |
|-----------------------------|-------|------|----------|--------|-------|-------------|
| 1) 1,4-Dichlorobenzene-d4   | 6.85  | 152  | 83163    | 20.00  | ng    | 0.00        |
| 21) Naphthalene-d8          | 8.13  | 136  | 325880   | 20.00  | ng    | 0.00        |
| 39) Acenaphthene-d10        | 9.88  | 164  | 164095   | 20.00  | ng    | 0.00        |
| 64) Phenanthrene-d10        | 11.36 | 188  | 253647   | 20.00  | ng    | 0.00        |
| 76) Chrysene-d12            | 14.00 | 240  | 152212   | 20.00  | ng    | 0.00        |
| 87) Perylene-d12            | 15.46 | 264  | 174901   | 20.00  | ng    | 0.02        |
| System Monitoring Compounds |       |      |          |        |       |             |
| 5) 2-Fluorophenol           | 5.47  | 112  | 679795   | 132.43 | ng    | 0.01        |
| 7) Phenol-d6                | 6.49  | 99   | 912944   | 135.44 | ng    | 0.00        |
| 23) Nitrobenzene-d5         | 7.40  | 82   | 560508   | 98.19  | ng    | 0.00        |
| 42) 2,4,6-Tribromophenol    | 10.67 | 330  | 162555   | 148.18 | ng    | 0.00        |
| 45) 2-Fluorobiphenyl        | 9.20  | 172  | 886865   | 91.17  | ng    | 0.00        |
| 79) Terphenyl-d14           | 12.95 | 244  | 716648   | 87.10  | ng    | 0.00        |
| Target Compounds            |       |      |          |        |       |             |
| 10) Phenol                  | 6.49  | 94   | 19854    | 2.660  | ng    | Qvalue # 40 |
| 37) 2-Methylnaphthalene     | 8.84  | 142  | 23641    | 2.293  | ng    | 97          |
| 38) 1-Methylnaphthalene     | 8.94  | 142  | 20423m   | 2.098  | ng    |             |
| 50) Dimethylphthalate       | 9.59  | 163  | 150547   | 13.289 | ng    | 98          |
| 71) Phenanthrene            | 11.39 | 178  | 37302    | 2.642  | ng    | 98          |
| 75) Fluoranthene            | 12.57 | 202  | 51985    | 3.746  | ng    | 98          |
| 78) Pyrene                  | 12.80 | 202  | 45183    | 3.339  | ng    | 100         |
| 81) Benzo(a)anthracene      | 13.99 | 228  | 23508    | 2.440  | ng    | 96          |
| 88) Benzo(b)fluoranthene    | 15.04 | 252  | 27375m   | 2.589  | ng    |             |
| 90) Benzo(a)pyrene          | 15.40 | 252  | 20836    | 2.265  | ng    | # 92        |

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

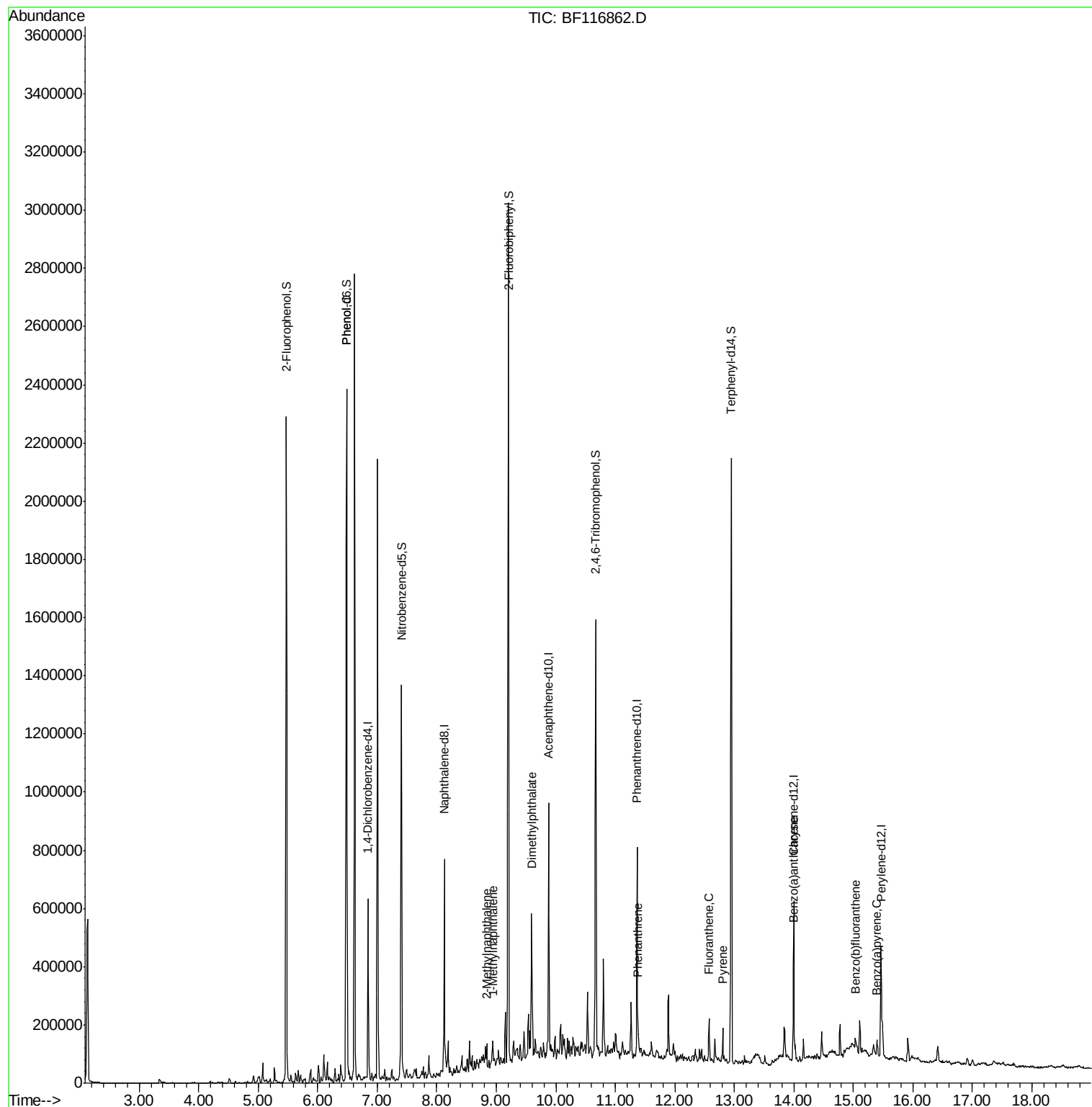
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF090619\  
Data File : BF116862.D  
Acq On : 6 Sep 2019 15:26  
Operator : HP/JU  
Sample : K4522-01  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

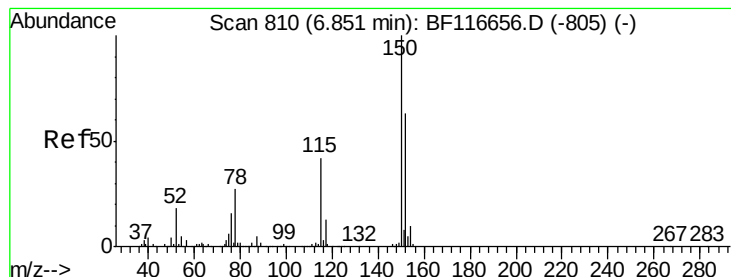
Instrument :  
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ClientSampleId :  
SIDEWALL-4

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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF083019.M  
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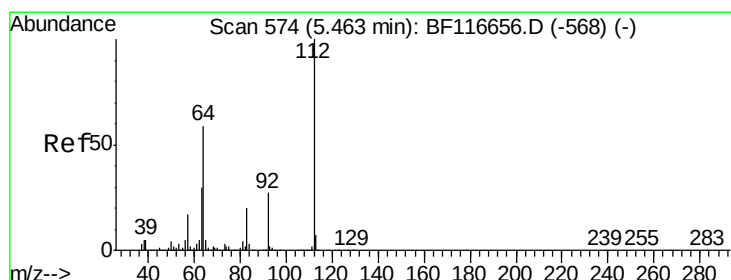
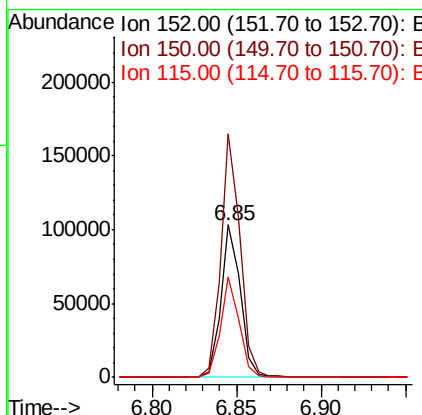
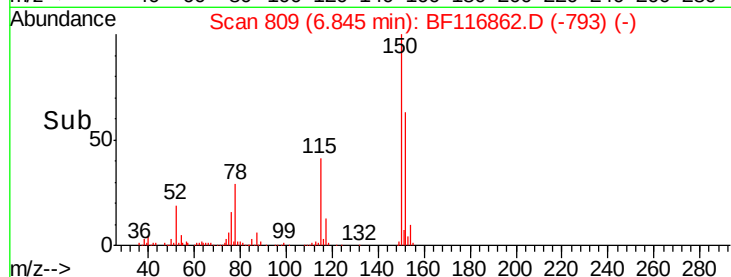
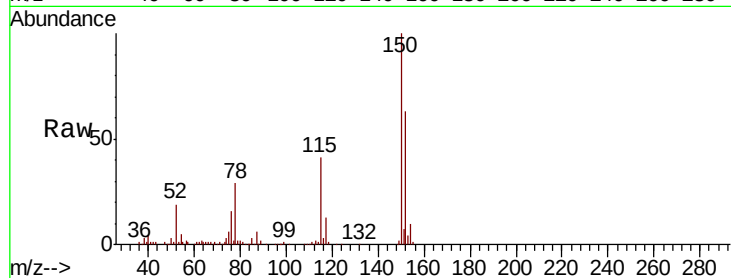
#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.85 min Scan# 809  
 Delta R.T. -0.01 min  
 Lab File: BF116862.D  
 Acq: 6 Sep 2019 15:26

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SIDEWALL-4

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 159.6 | 124.4 | 186.6 |
| 115     | 65.9  | 49.9  | 74.9  |

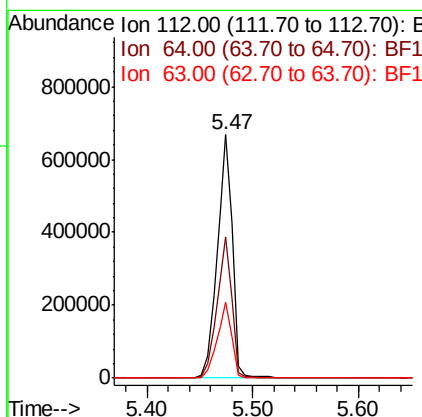
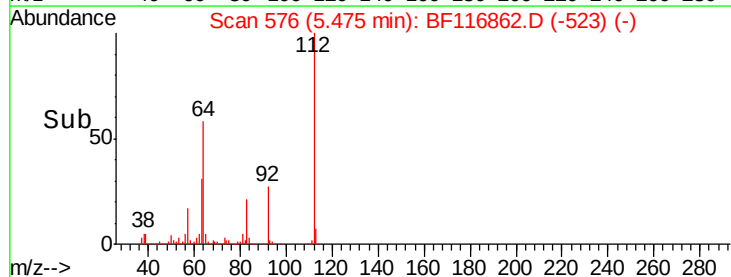
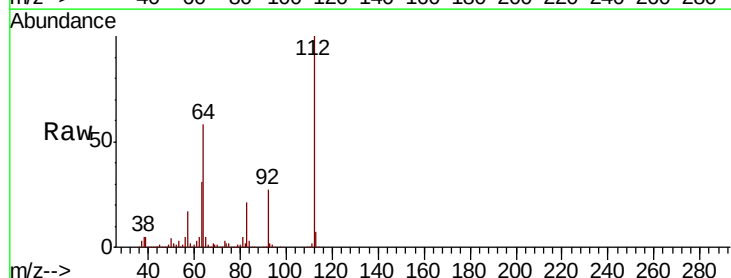
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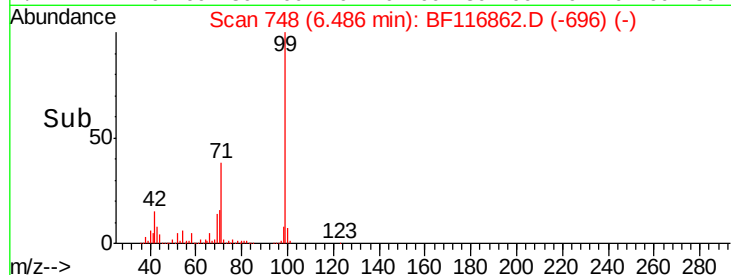
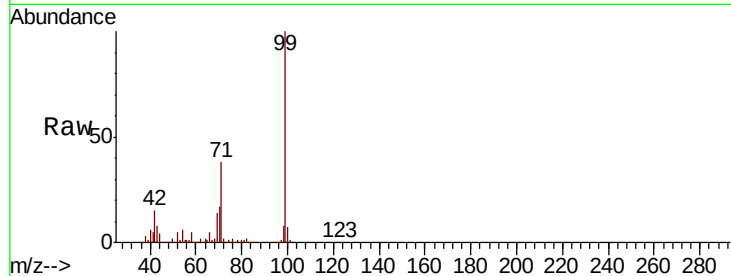
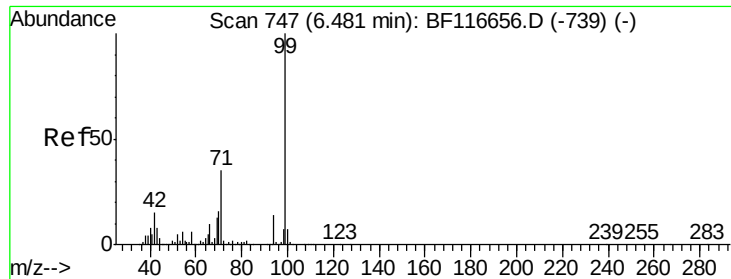
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#5  
 2-Fluorophenol  
 Concen: 132.427 ng  
 RT: 5.47 min Scan# 576  
 Delta R.T. 0.01 min  
 Lab File: BF116862.D  
 Acq: 6 Sep 2019 15:26

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 58.0  | 47.1  | 70.7  |
| 63      | 31.2  | 24.9  | 37.3  |





#7

Phenol-d6

Concen: 135.439 ng

RT: 6.49 min Scan# 748

Delta R.T. 0.01 min

Lab File: BF116862.D

Acq: 6 Sep 2019 15:26

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 99    | Resp: | 912944 |
| Ion Ratio | Lower | Upper |        |
| 99        | 100   |       |        |
| 42        | 15.3  | 13.7  | 20.5   |
| 71        | 37.7  | 30.8  | 46.2   |

Instrument :

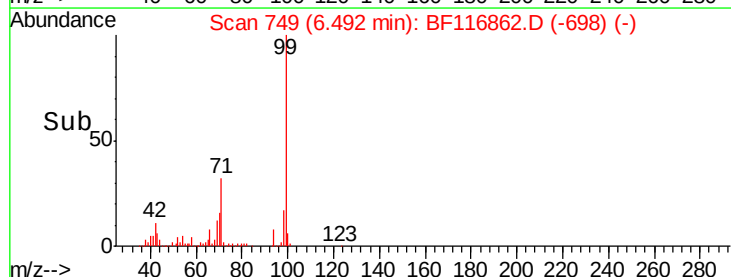
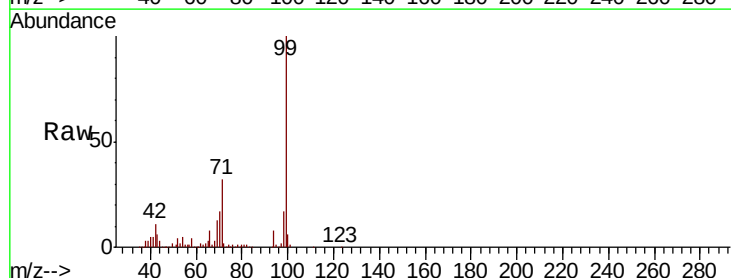
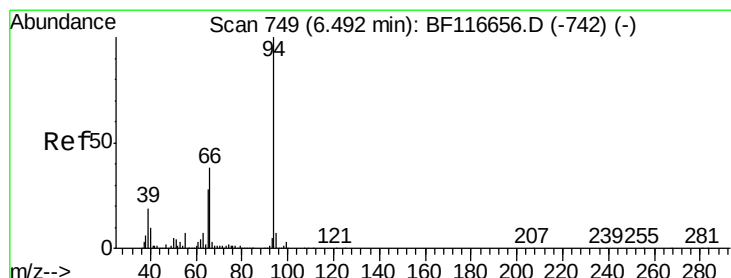
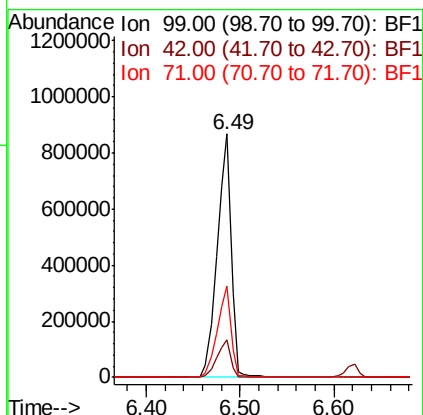
BNA\_F

ClientSampled :

SIDEWALL-4

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#10

Phenol

Concen: 2.660 ng

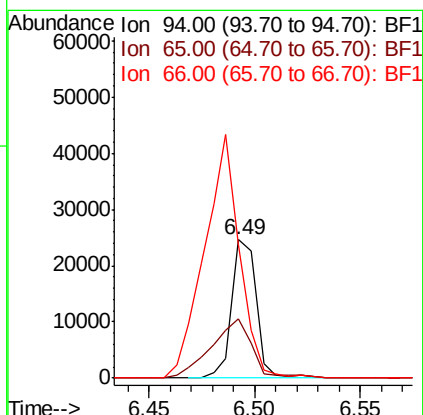
RT: 6.49 min Scan# 749

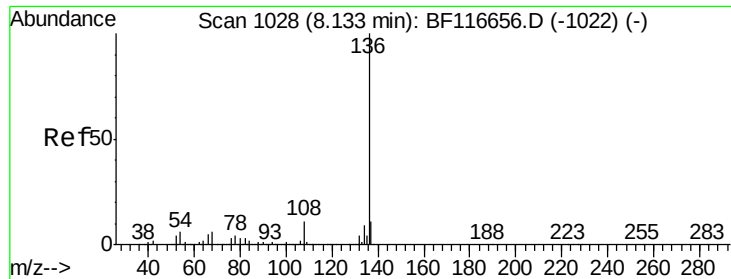
Delta R.T. 0.00 min

Lab File: BF116862.D

Acq: 6 Sep 2019 15:26

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 94    | Resp: | 19854 |
| Ion Ratio | Lower | Upper |       |
| 94        | 100   |       |       |
| 65        | 42.8  | 10.8  | 50.8  |
| 66        | 96.7  | 21.1  | 61.1# |





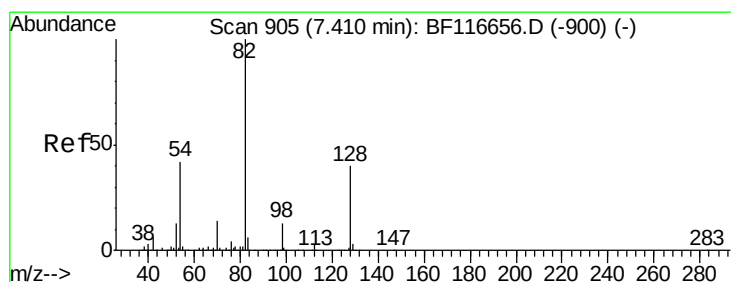
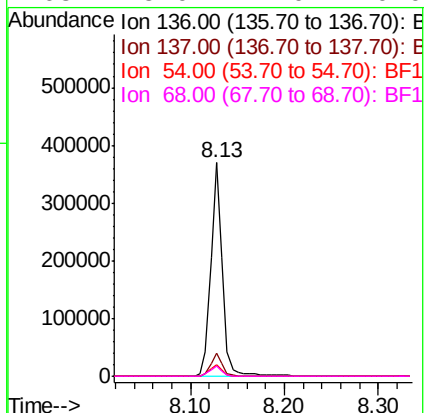
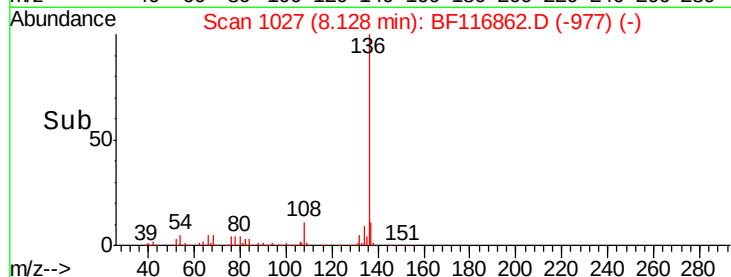
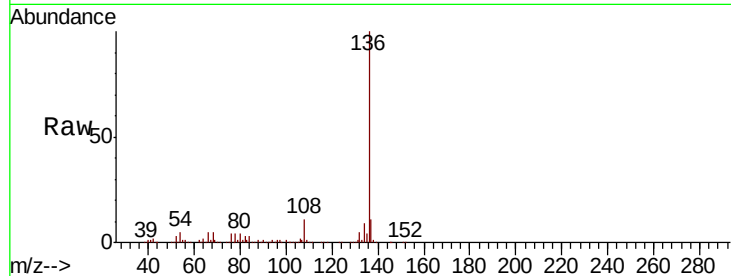
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.13 min Scan# 1027  
Delta R.T. -0.01 min  
Lab File: BF116862.D  
Acq: 6 Sep 2019 15:26

Instrument :  
BNA\_F  
ClientSampleId :  
SIDEWALL-4

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 136     | 100   |      |       |       |
| 137     | 11.0  | 8.9  | 13.3  |       |
| 54      | 5.5   | 4.8  | 7.2   |       |
| 68      | 5.0   | 4.0  | 6.0   |       |

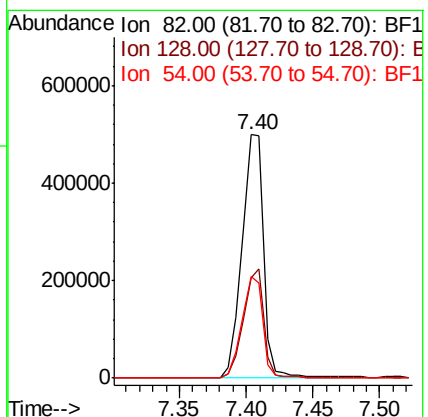
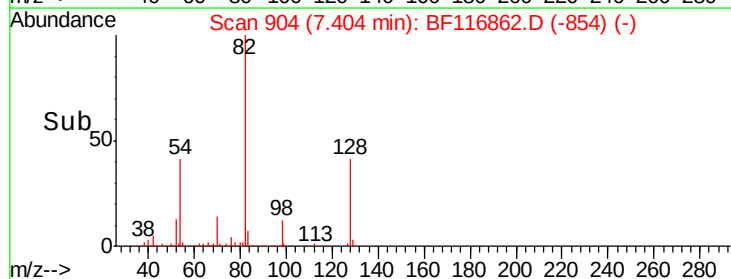
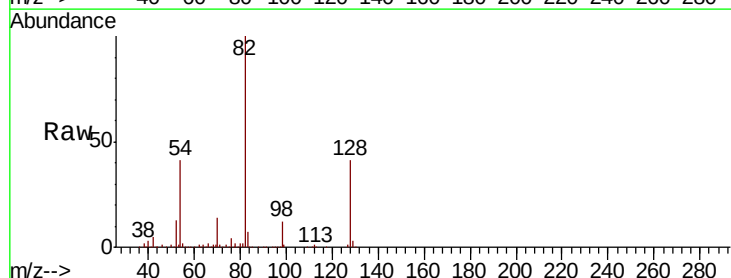
Manual Integrations  
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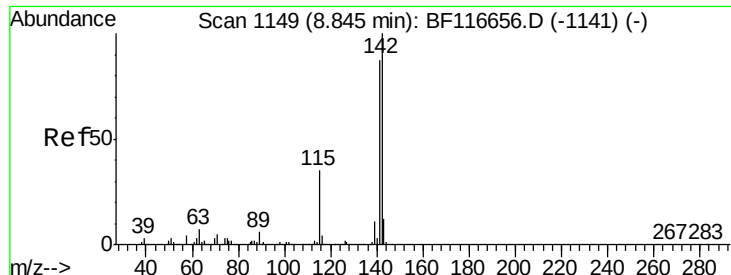
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#23  
Nitrobenzene-d5  
Concen: 98.189 ng  
RT: 7.40 min Scan# 904  
Delta R.T. -0.01 min  
Lab File: BF116862.D  
Acq: 6 Sep 2019 15:26

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 82      | 100   |      |       |       |
| 128     | 41.2  | 32.8 | 49.2  |       |
| 54      | 41.5  | 36.9 | 55.3  |       |





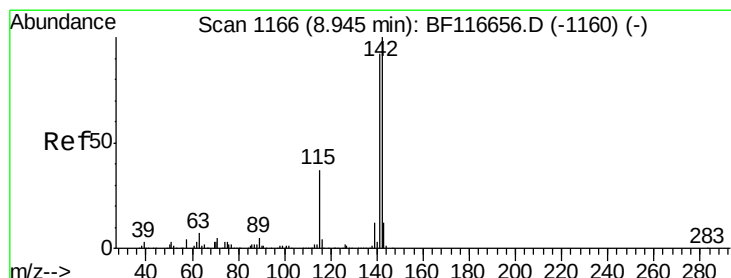
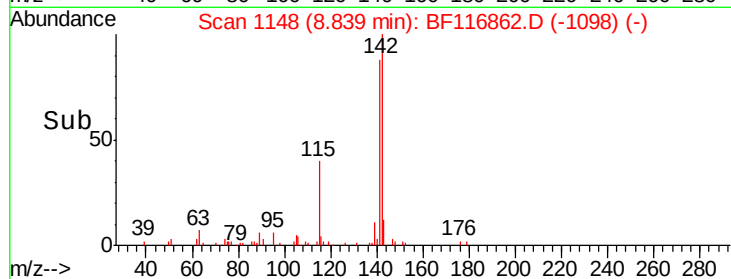
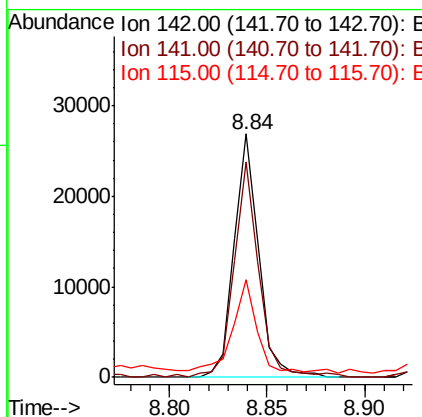
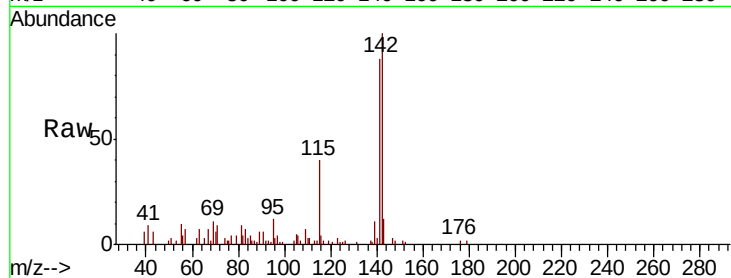
#37  
2-Methylnaphthalene  
Concen: 2.293 ng  
RT: 8.84 min Scan# 1148  
Delta R.T. -0.01 min  
Lab File: BF116862.D  
Acq: 6 Sep 2019 15:26

Instrument :  
BNA\_F  
ClientSampleId :  
SIDEWALL-4

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 88.4  | 72.6  | 109.0 |
| 115     | 40.1  | 29.8  | 44.6  |

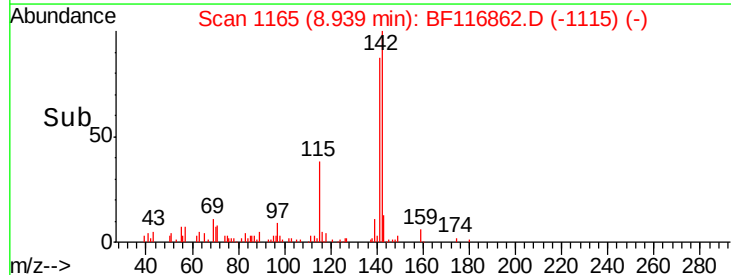
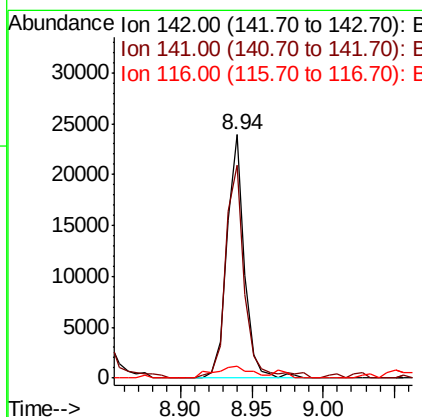
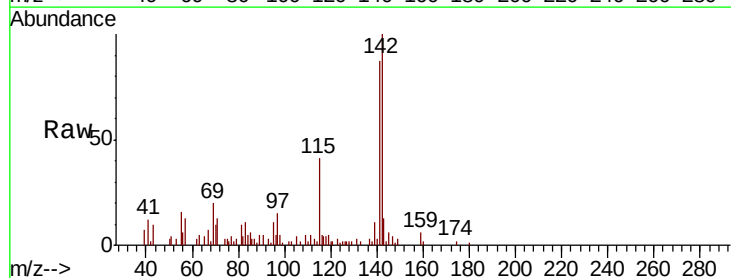
Manual Integrations  
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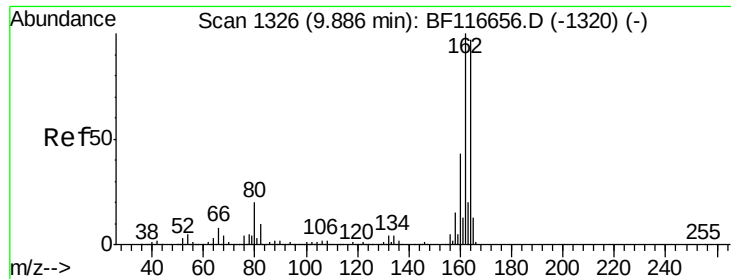
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#38  
1-Methylnaphthalene  
Concen: 2.098 ng m  
RT: 8.94 min Scan# 1165  
Delta R.T. -0.01 min  
Lab File: BF116862.D  
Acq: 6 Sep 2019 15:26

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 87.5  | 73.9  | 110.9 |
| 116     | 4.9   | 3.0   | 4.6#  |





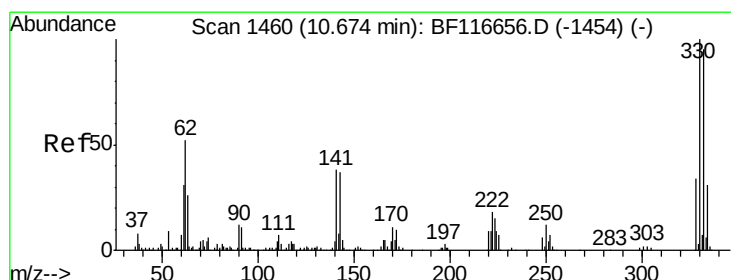
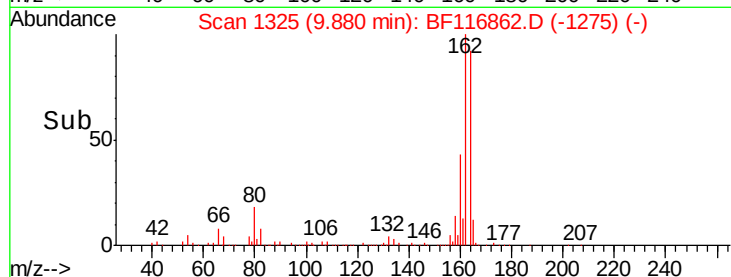
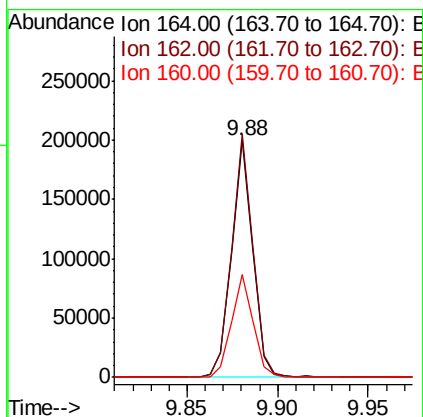
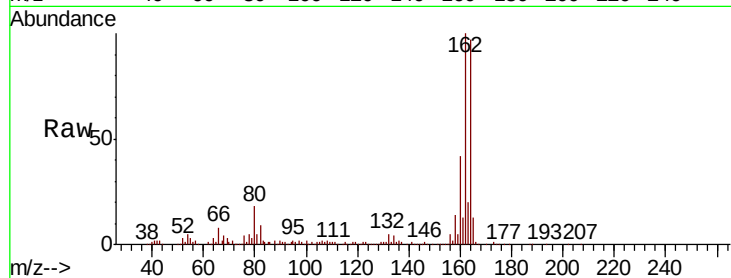
#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.88 min Scan# 1325  
Delta R.T. -0.01 min  
Lab File: BF116862.D  
Acq: 6 Sep 2019 15:26

Instrument :  
BNA\_F  
ClientSampleId :  
SIDEWALL-4

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 164     | 100   | 164095 |       |       |
| 162     | 102.8 | 81.4   | 122.0 |       |
| 160     | 43.6  | 35.4   | 53.2  |       |

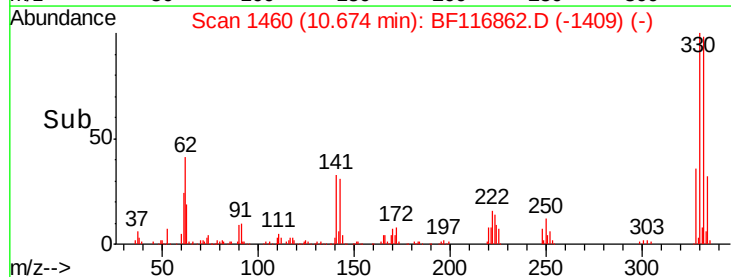
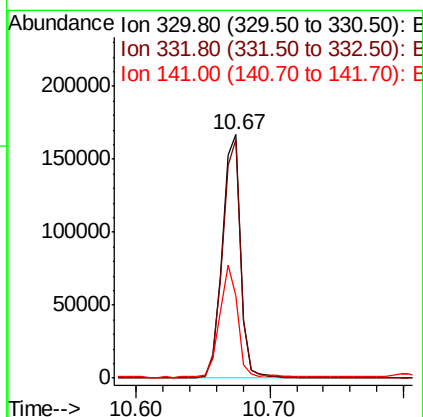
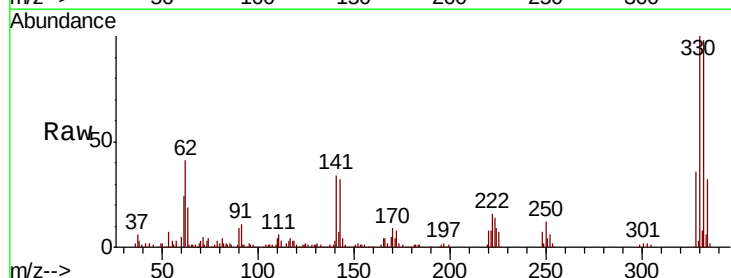
Manual Integrations  
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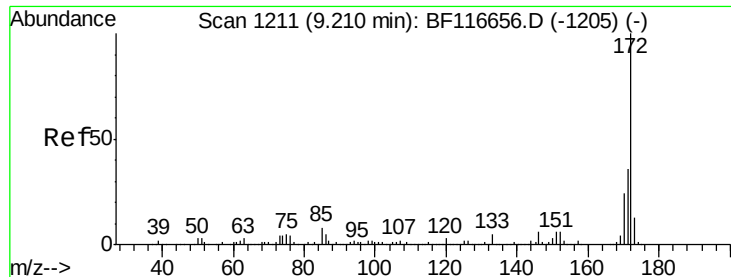
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#42  
2,4,6-Tribromophenol  
Concen: 148.180 ng  
RT: 10.67 min Scan# 1460  
Delta R.T. 0.00 min  
Lab File: BF116862.D  
Acq: 6 Sep 2019 15:26

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 330     | 100   | 162555 |       |       |
| 332     | 97.4  | 76.9   | 115.3 |       |
| 141     | 45.2  | 31.4   | 47.2  |       |





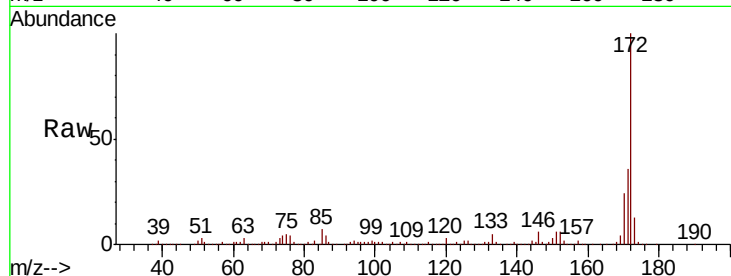
#45  
2-Fluorobiphenyl  
Concen: 91.170 ng  
RT: 9.20 min Scan# 1210  
Delta R.T. -0.01 min  
Lab File: BF116862.D  
Acq: 6 Sep 2019 15:26

Instrument :  
BNA\_F  
ClientSampleId :  
SIDEWALL-4

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.7  | 27.8  | 41.6  |
| 170     | 23.7  | 18.9  | 28.3  |

Manual Integrations  
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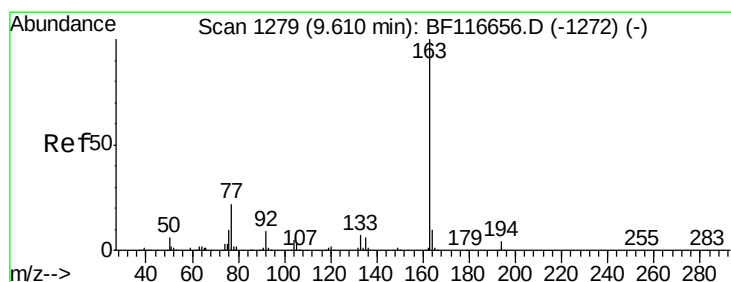
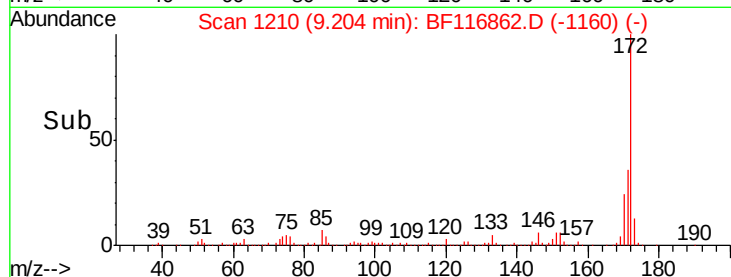
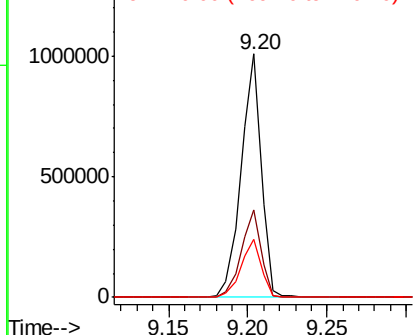


Abundance

Ion 172.00 (171.70 to 172.70): E

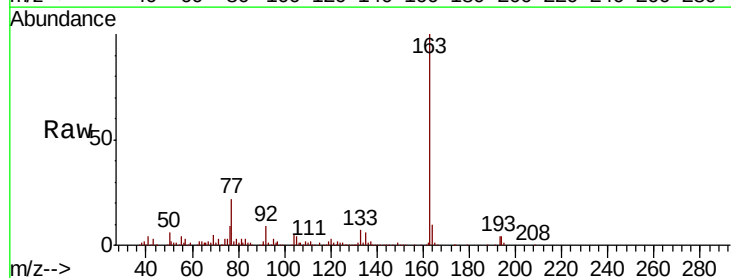
Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#50  
Dimethylphthalate  
Concen: 13.289 ng  
RT: 9.59 min Scan# 1276  
Delta R.T. -0.02 min  
Lab File: BF116862.D  
Acq: 6 Sep 2019 15:26

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 4.1   | 2.8   | 4.2   |
| 164     | 9.9   | 8.6   | 12.8  |

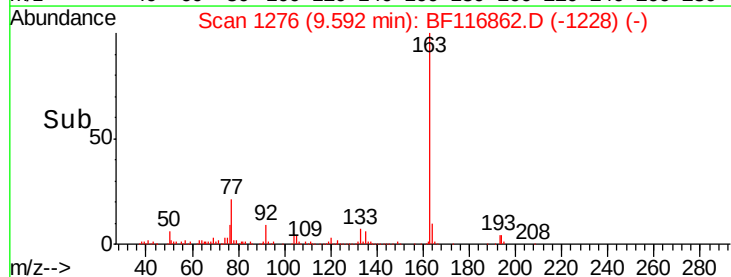
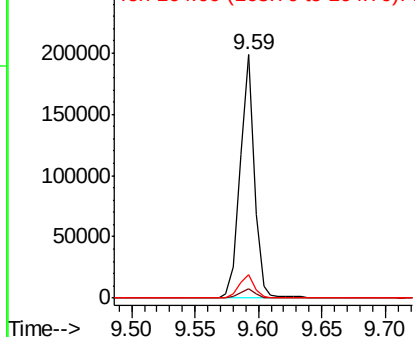


Abundance

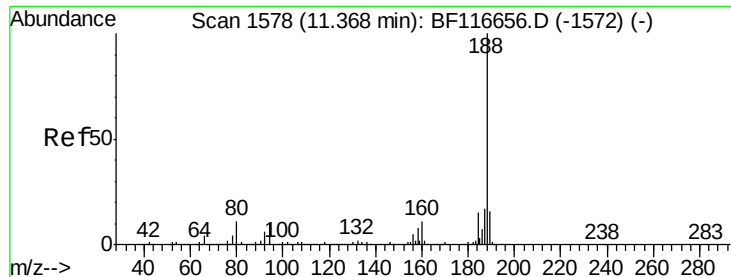
Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E







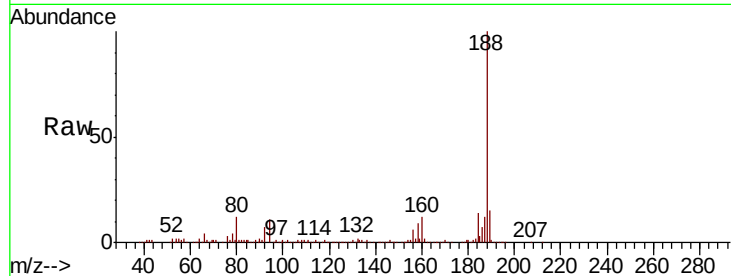
#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.36 min Scan# 1577  
Delta R.T. -0.01 min  
Lab File: BF116862.D  
Acq: 6 Sep 2019 15:26

Instrument :  
BNA\_F  
ClientSampleId :  
SIDEWALL-4

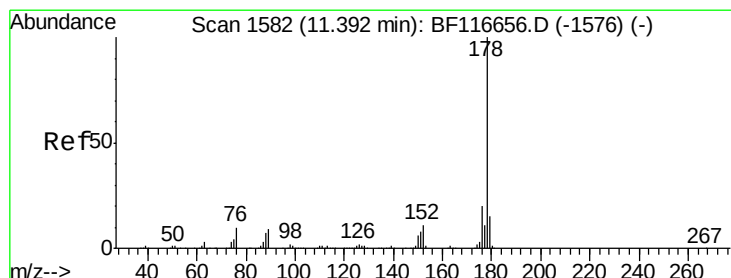
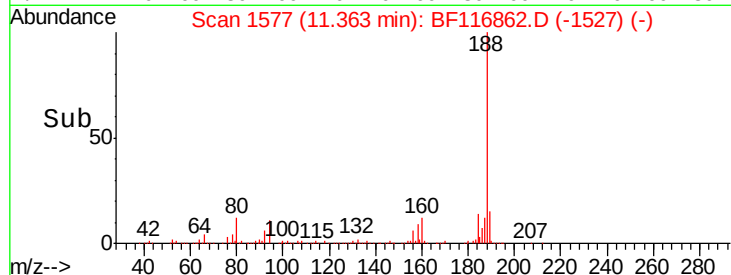
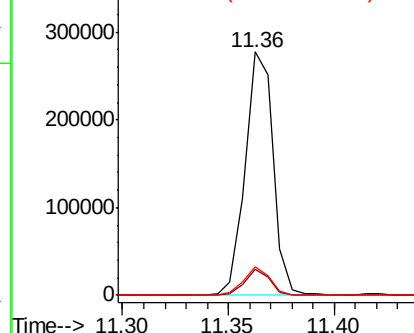
| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 188     | 100   |            |       |
| 94      | 10.9  | 7.3        | 10.9  |
| 80      | 11.8  | 8.4        | 12.6  |

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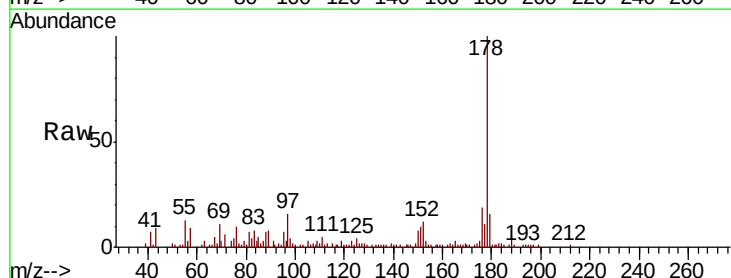


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF1  
Ion 80.00 (79.70 to 80.70): BF1

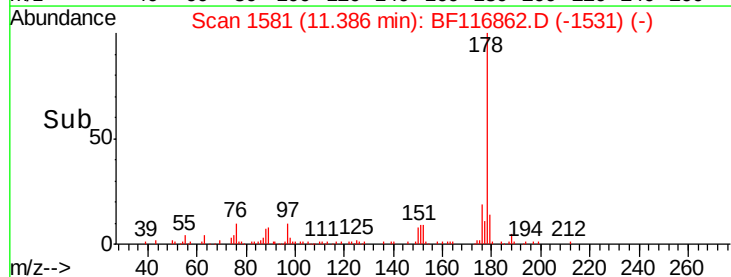
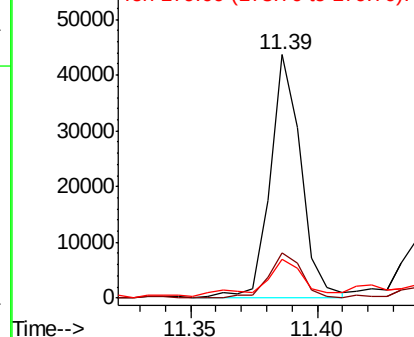


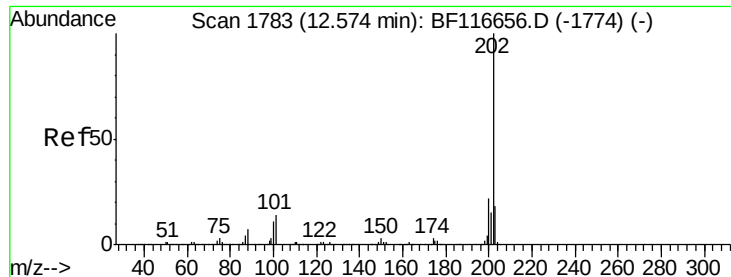
#71  
Phenanthrene  
Concen: 2.642 ng  
RT: 11.39 min Scan# 1581  
Delta R.T. -0.01 min  
Lab File: BF116862.D  
Acq: 6 Sep 2019 15:26

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 178     | 100   |            |       |
| 176     | 18.7  | 15.4       | 23.0  |
| 179     | 16.0  | 12.2       | 18.2  |



Abundance Ion 178.00 (177.70 to 178.70): E  
Ion 176.00 (175.70 to 176.70): E  
Ion 179.00 (178.70 to 179.70): E





#75

Fluoranthene

Concen: 3.746 ng

RT: 12.57 min Scan# 1783

Delta R.T. 0.00 min

Lab File: BF116862.D

Acq: 6 Sep 2019 15:26

Instrument :

BNA\_F

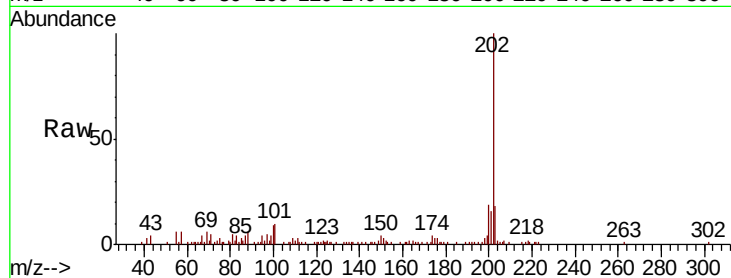
ClientSampleId :

SIDEWALL-4

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 202   | Resp: | 51985 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 10.4  | 0.0   | 31.3  |
| 203       | 18.4  | 0.0   | 37.6  |

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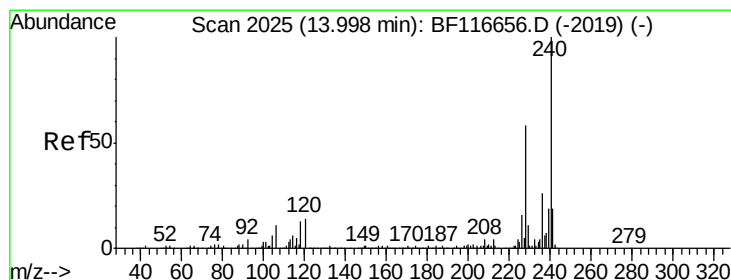
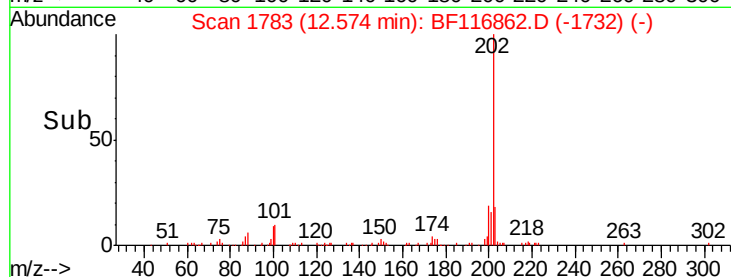
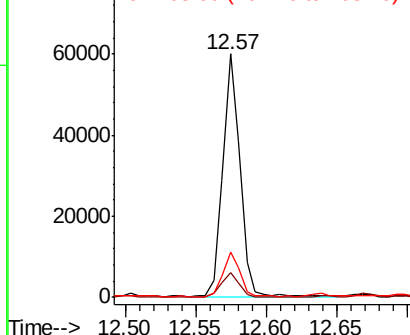


Abundance

Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.00 min Scan# 2025

Delta R.T. 0.00 min

Lab File: BF116862.D

Acq: 6 Sep 2019 15:26

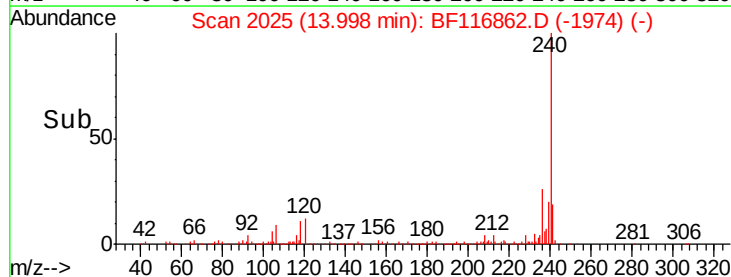
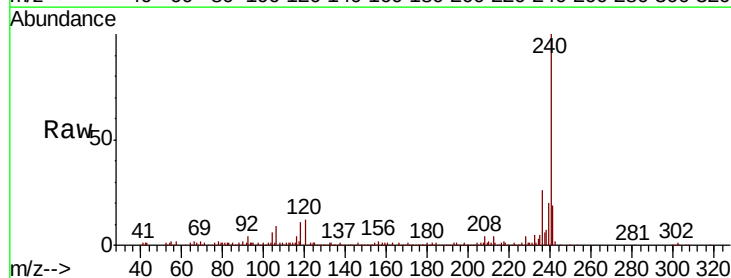
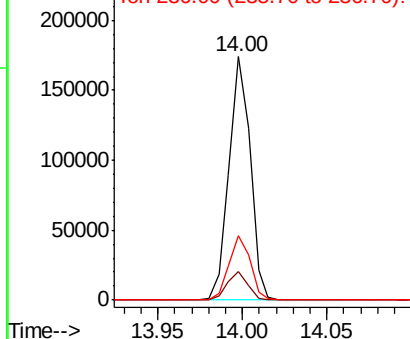
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 240   | Resp: | 152212 |
| Ion Ratio | Lower | Upper |        |
| 240       | 100   |       |        |
| 120       | 11.8  | 9.1   | 13.7   |
| 236       | 26.4  | 21.1  | 31.7   |

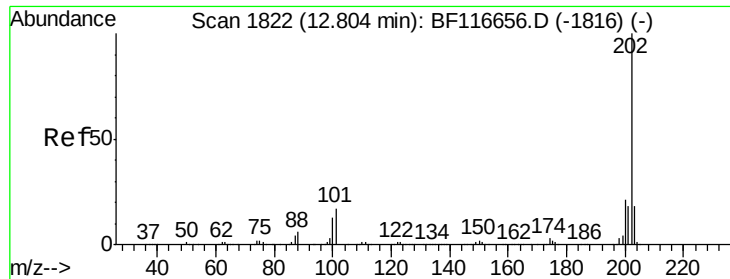
Abundance

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





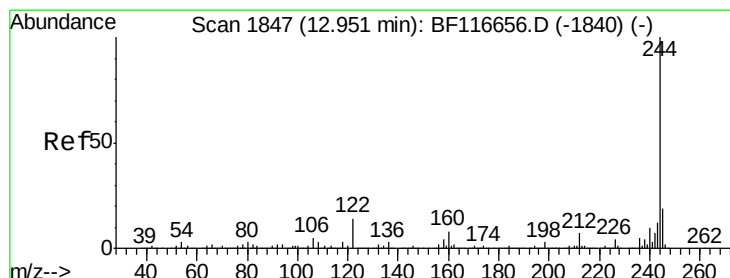
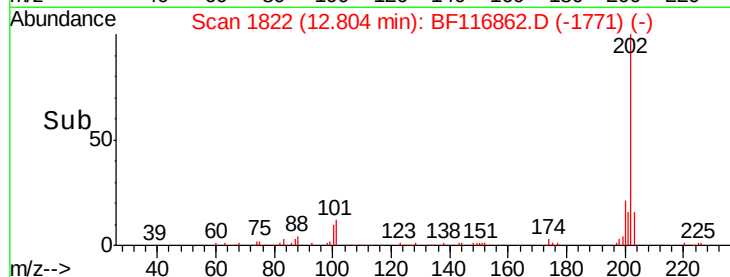
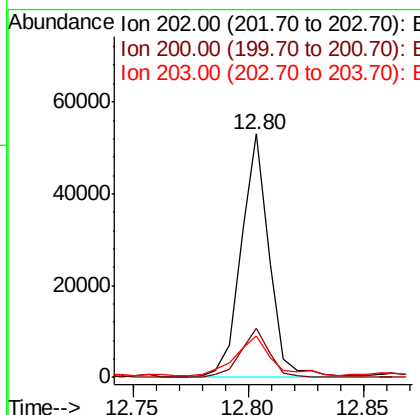
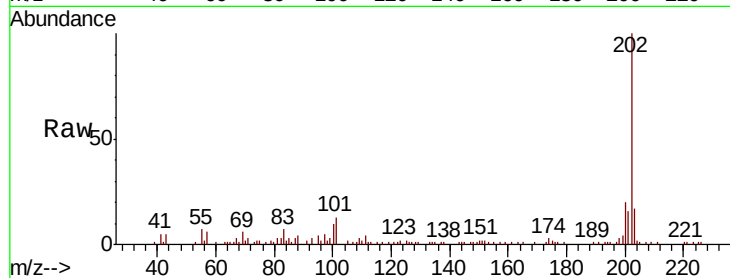
#78  
Pvrene  
Concen: 3.339 ng  
RT: 12.80 min Scan# 1822  
Delta R.T. 0.00 min  
Lab File: BF116862.D  
Acq: 6 Sep 2019 15:26

Instrument :  
BNA\_F  
ClientSampleId :  
SIDEWALL-4

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 20.3  | 16.5  | 24.7  |
| 203     | 17.2  | 13.7  | 20.5  |

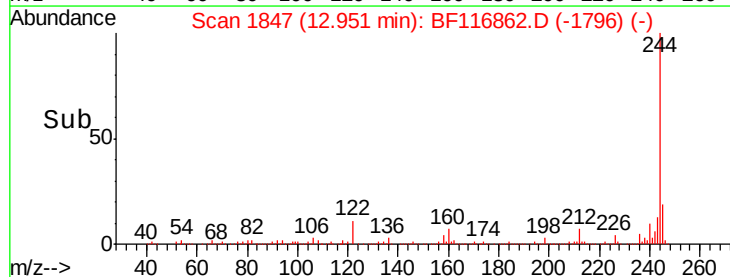
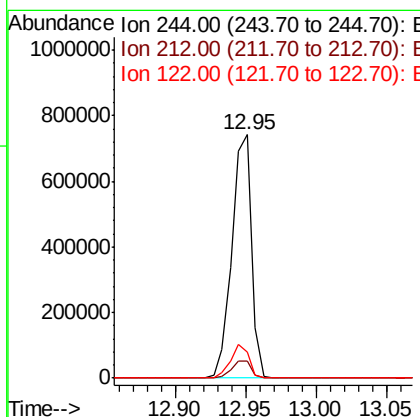
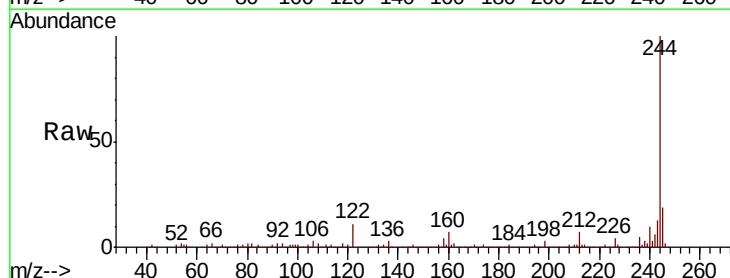
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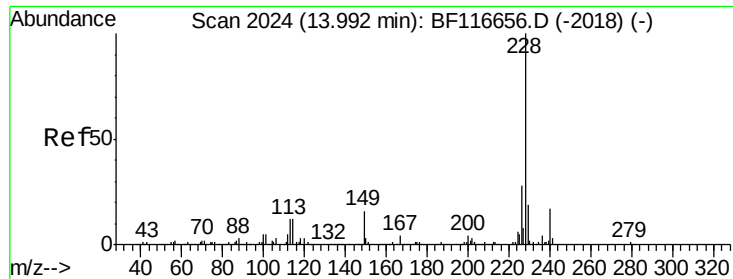
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#79  
Terphenyl-d14  
Concen: 87.099 ng  
RT: 12.95 min Scan# 1847  
Delta R.T. 0.00 min  
Lab File: BF116862.D  
Acq: 6 Sep 2019 15:26

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 7.1   | 6.1   | 9.1   |
| 122     | 10.8  | 10.2  | 15.4  |





#81

Benzo(a)anthracene

Concen: 2.440 ng

RT: 13.99 min Scan# 2023

Delta R.T. -0.01 min

Lab File: BF116862.D

Acq: 6 Sep 2019 15:26

Instrument :

BNA\_F

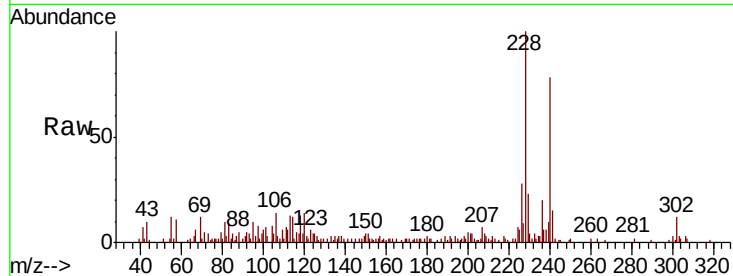
ClientSampleId :

SIDEWALL-4

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 228   | Resp: | 23508 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 28.4  | 22.0  | 33.0  |
| 229       | 23.3  | 16.4  | 24.6  |

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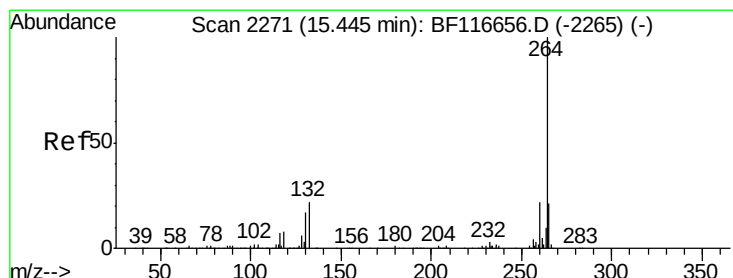
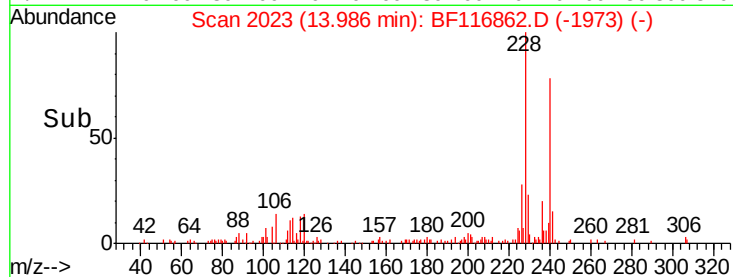
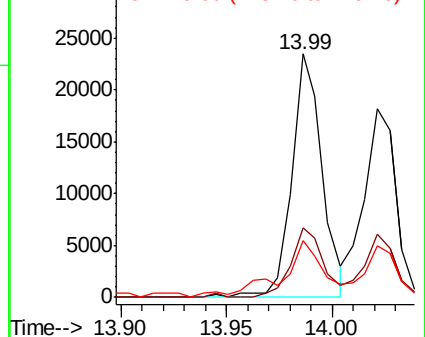


Abundance

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



#87

Perylene-d12

Concen: 20.000 ng

RT: 15.46 min Scan# 2274

Delta R.T. 0.02 min

Lab File: BF116862.D

Acq: 6 Sep 2019 15:26

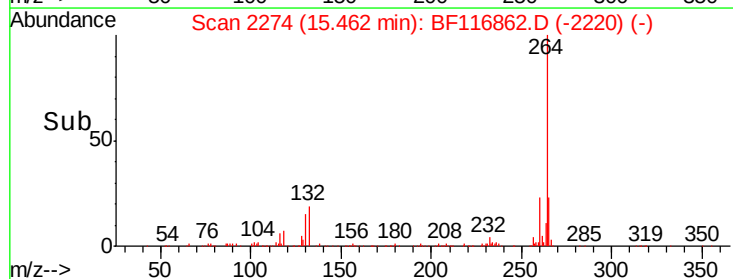
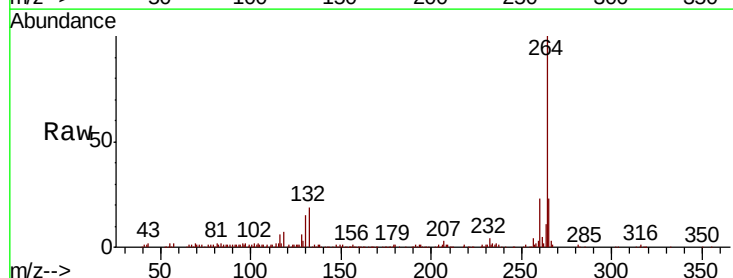
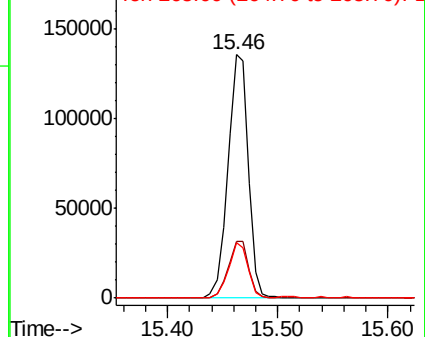
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 264   | Resp: | 174901 |
| Ion Ratio | Lower | Upper |        |
| 264       | 100   |       |        |
| 260       | 23.3  | 18.3  | 27.5   |
| 265       | 22.7  | 16.5  | 24.7   |

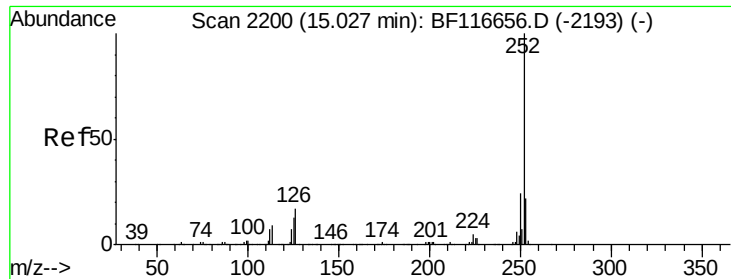
Abundance

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





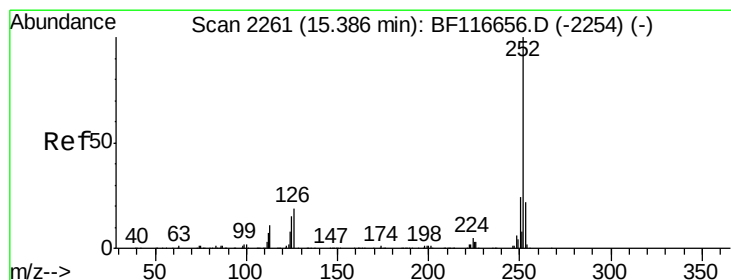
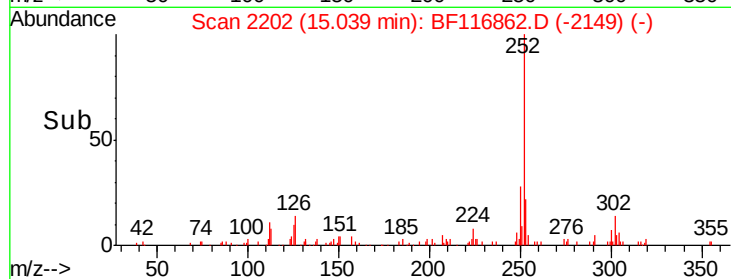
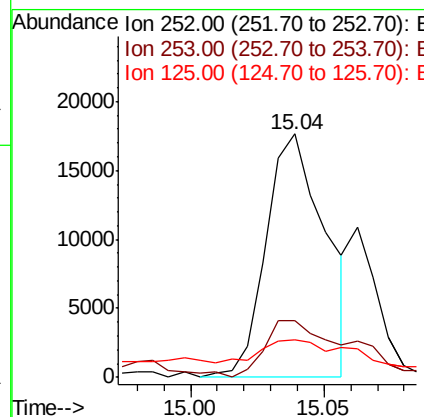
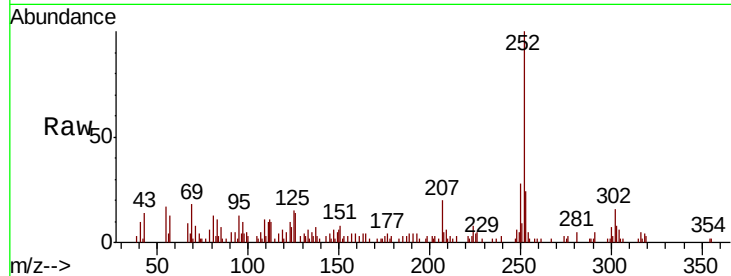
#88  
Benzo(b)fluoranthene  
Concen: 2.589 ng m  
RT: 15.04 min Scan# 2202  
Delta R.T. 0.01 min  
Lab File: BF116862.D  
Acq: 6 Sep 2019 15:26

Instrument :  
BNA\_F  
ClientSampleId :  
SIDEWALL-4

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.5  | 17.7  | 26.5  |
| 125     | 15.5  | 8.2   | 12.2  |

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#90  
Benzo(a)pyrene  
Concen: 2.265 ng  
RT: 15.40 min Scan# 2263  
Delta R.T. 0.01 min  
Lab File: BF116862.D  
Acq: 6 Sep 2019 15:26

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 25.1  | 18.1  | 27.1  |
| 125     | 17.5  | 9.8   | 14.8  |

