

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF091819\  
 Data File : BF117169.D  
 Acq On : 19 Sep 2019 2:14  
 Operator : HP/JU  
 Sample : K4938-03 5X  
 Misc :  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Sep 19 05:18:59 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF091319.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Sep 13 16:23:17 2019  
 Response via : Initial Calibration

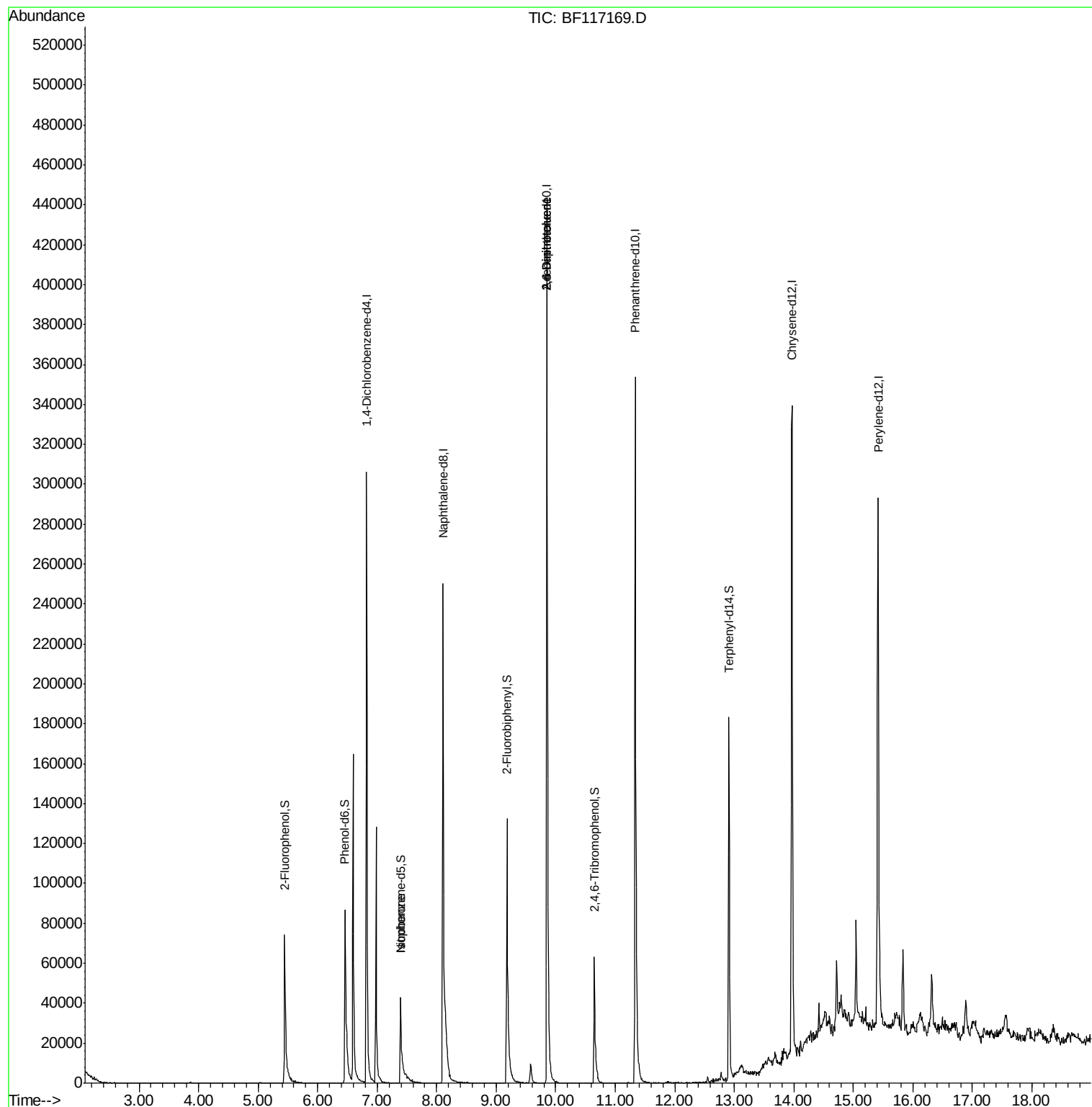
| Internal Standards          | R.T.  | QIon | Response | Conc      | Units    | Dev(Min) |
|-----------------------------|-------|------|----------|-----------|----------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.82  | 152  | 51497    | 20.00     | ng       | 0.00     |
| 21) Naphthalene-d8          | 8.10  | 136  | 219596   | 20.00     | ng       | 0.00     |
| 39) Acenaphthene-d10        | 9.85  | 164  | 132901   | 20.00     | ng       | 0.00     |
| 64) Phenanthrene-d10        | 11.33 | 188  | 200736   | 20.00     | ng       | 0.00     |
| 76) Chrysene-d12            | 13.97 | 240  | 146690   | 20.00     | ng       | 0.00     |
| 87) Perylene-d12            | 15.42 | 264  | 137036   | 20.00     | ng       | 0.00     |
| System Monitoring Compounds |       |      |          |           |          |          |
| 5) 2-Fluorophenol           | 5.45  | 112  | 44707    | 13.55     | ng       | 0.00     |
| 7) Phenol-d6                | 6.46  | 99   | 63299    | 14.85     | ng       | 0.00     |
| 23) Nitrobenzene-d5         | 7.39  | 82   | 42352    | 10.13     | ng       | 0.00     |
| 42) 2,4,6-Tribromophenol    | 10.65 | 330  | 14640    | 13.18     | ng       | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.18  | 172  | 93207    | 10.97     | ng       | 0.00     |
| 79) Terphenyl-d14           | 12.91 | 244  | 78884    | 10.05     | ng       | 0.00     |
| Target Compounds            |       |      |          |           |          |          |
| 9) Benzaldehyde             | 6.59  | 77   | 1092     | Below Cal | Qvalue # | 81       |
| 25) Isophorone              | 7.39  | 82   | 42352    | 5.723 ng  | #        | 66       |
| 51) 2,6-Dinitrotoluene      | 9.85  | 165  | 16377    | 8.545 ng  | #        | 24       |
| 57) 2,4-Dinitrotoluene      | 9.85  | 165  | 16377    | 6.583 ng  | #        | 18       |

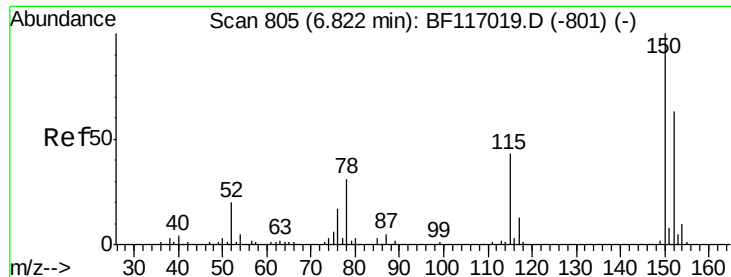
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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BNA\_F  
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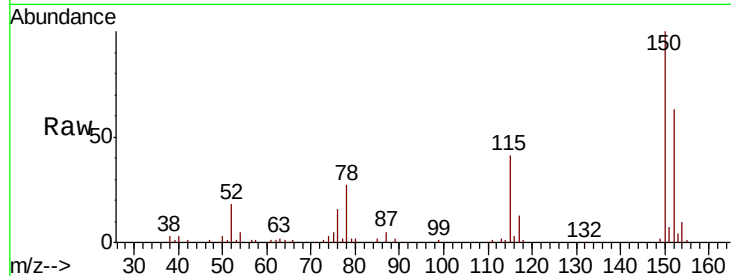


#1

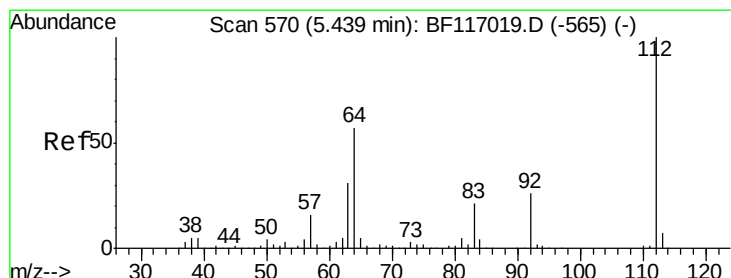
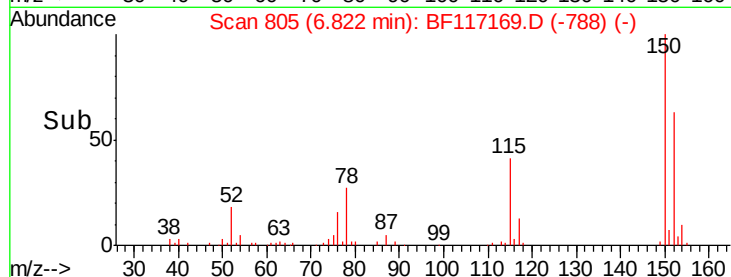
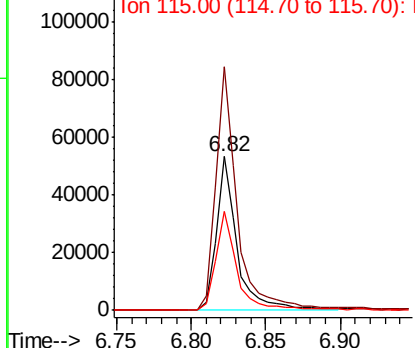
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.82 min Scan# 805  
Delta R.T. 0.00 min  
Lab File: BF117169.D  
Acq: 19 Sep 2019 2:14

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 51497  
Ion Ratio Lower Upper  
152 100  
150 158.5 127.5 191.3  
115 64.6 55.0 82.4



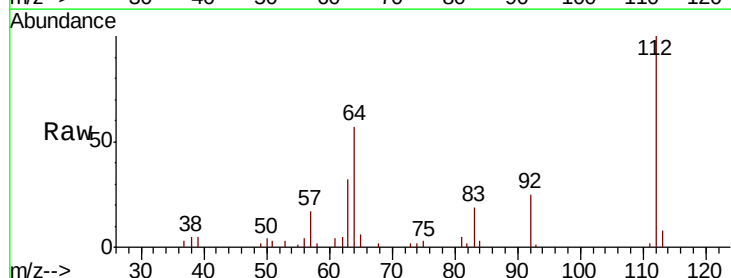
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



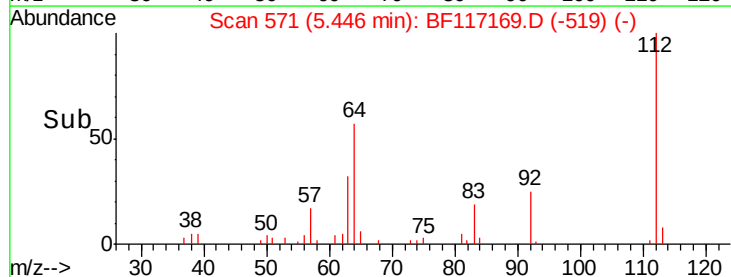
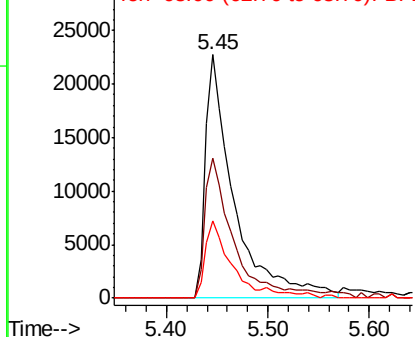
#5

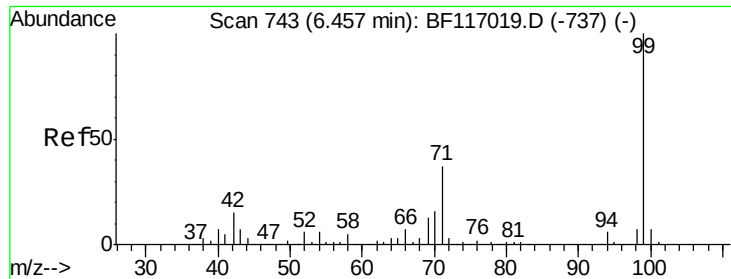
2-Fluorophenol  
Concen: 13.554 ng  
RT: 5.45 min Scan# 571  
Delta R.T. 0.01 min  
Lab File: BF117169.D  
Acq: 19 Sep 2019 2:14

Tgt Ion:112 Resp: 44707  
Ion Ratio Lower Upper  
112 100  
64 57.3 45.7 68.5  
63 31.9 24.9 37.3



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: 14.849 ng

RT: 6.46 min Scan# 743

Delta R.T. 0.00 min

Lab File: BF117169.D

Acq: 19 Sep 2019 2:14

Instrument :

BNA\_F

ClientSampleId :

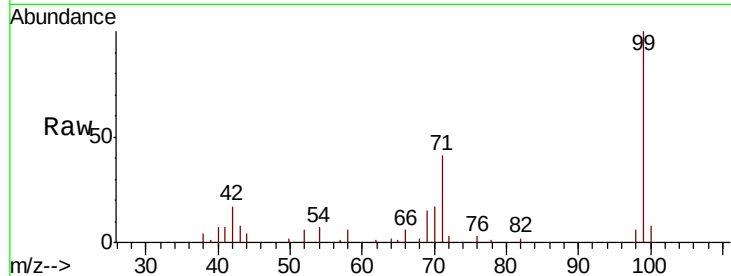
Tot Ion: 99 Resp: 63299

Ion Ratio Lower Upper

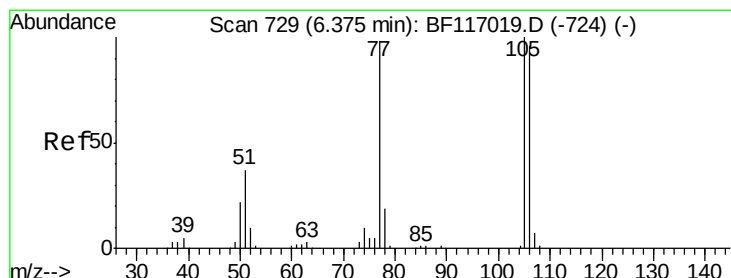
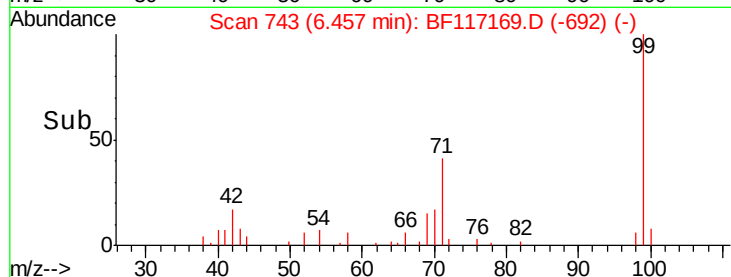
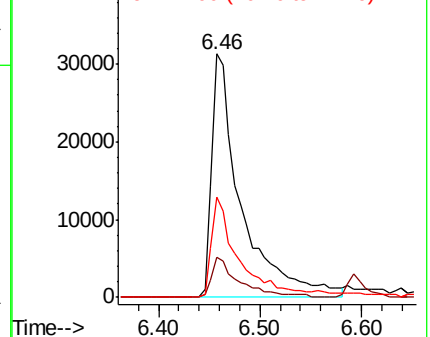
99 100

42 16.6 12.2 18.2

71 41.2 29.8 44.8



Abundance Ion 99.00 (98.70 to 99.70): BF1  
Ion 42.00 (41.70 to 42.70): BF1  
Ion 71.00 (70.70 to 71.70): BF1



#9

Benzaldehyde

Concen: Below Cal

RT: 6.59 min Scan# 766

Delta R.T. 0.22 min

Lab File: BF117169.D

Acq: 19 Sep 2019 2:14

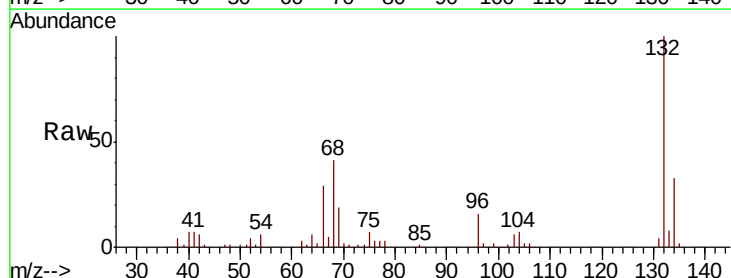
Tgt Ion: 77 Resp: 1092

Ion Ratio Lower Upper

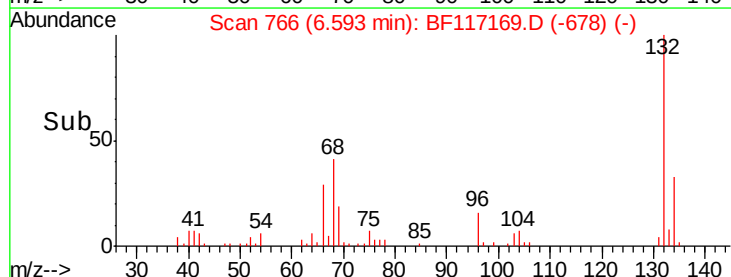
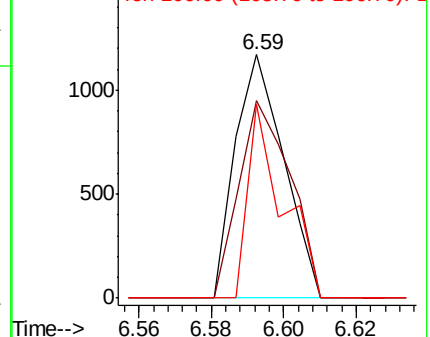
77 100

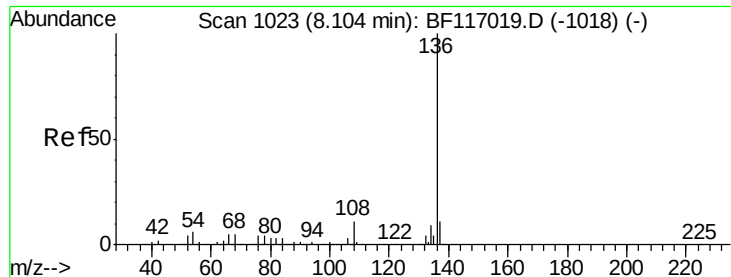
105 81.4 81.8 121.8#

106 79.6 77.3 117.3



Abundance Ion 77.00 (76.70 to 77.70): BF1  
Ion 105.00 (104.70 to 105.70): E  
Ion 106.00 (105.70 to 106.70): E

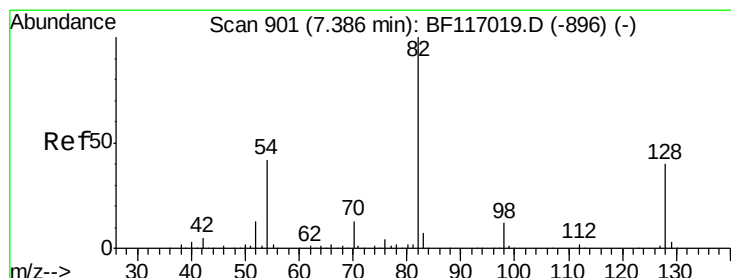
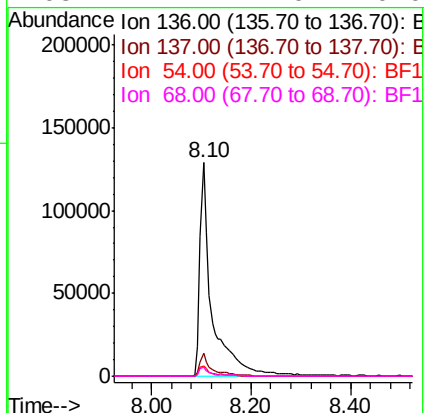
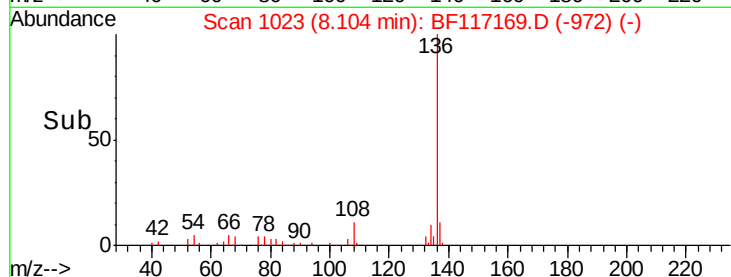
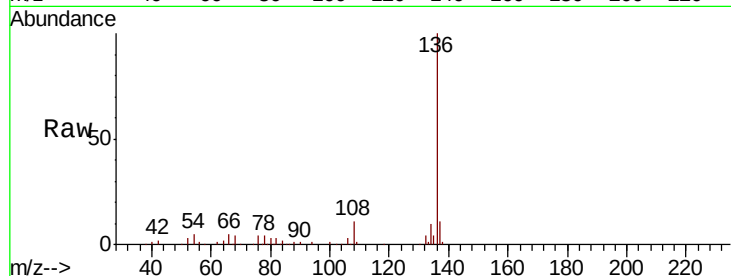




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.10 min Scan# 1023  
Delta R.T. 0.00 min  
Lab File: BF117169.D  
Acq: 19 Sep 2019 2:14

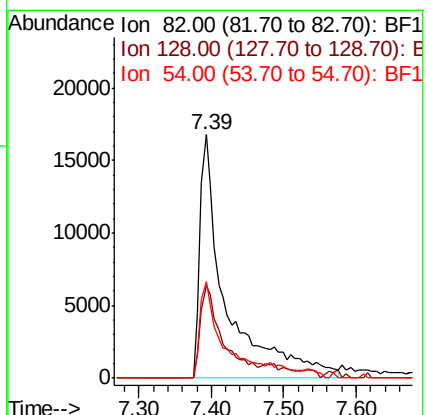
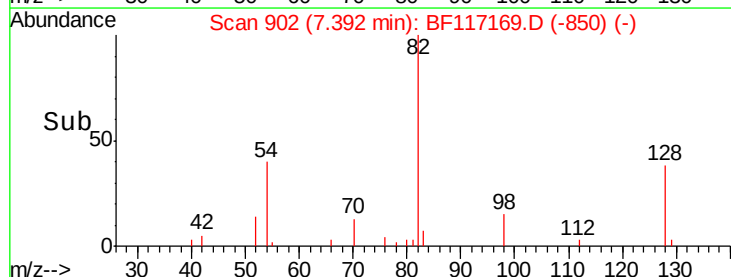
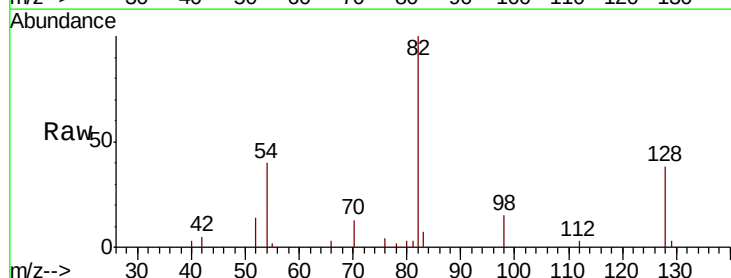
Instrument :  
BNA\_F  
ClientSampleId :

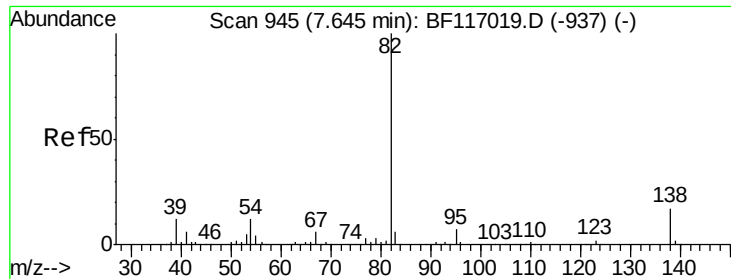
|             |       |          |
|-------------|-------|----------|
| Tot Ion:136 | Resp: | 219596   |
| Ion Ratio   | Lower | Upper    |
| 136         | 100   |          |
| 137         | 10.7  | 9.0 13.4 |
| 54          | 4.9   | 4.5 6.7  |
| 68          | 4.2   | 4.0 6.0  |



#23  
Nitrobenzene-d5  
Concen: 10.134 ng  
RT: 7.39 min Scan# 902  
Delta R.T. 0.01 min  
Lab File: BF117169.D  
Acq: 19 Sep 2019 2:14

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion: 82 | Resp: | 42352     |
| Ion Ratio   | Lower | Upper     |
| 82          | 100   |           |
| 128         | 37.9  | 32.3 48.5 |
| 54          | 39.6  | 33.3 49.9 |

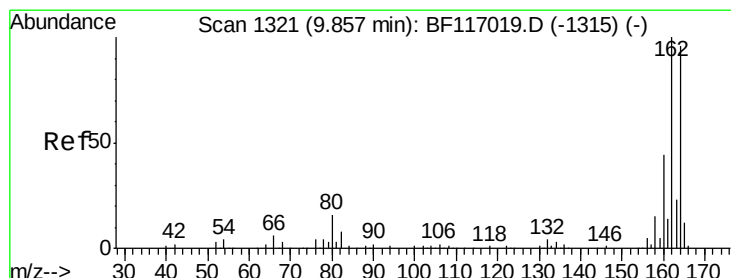
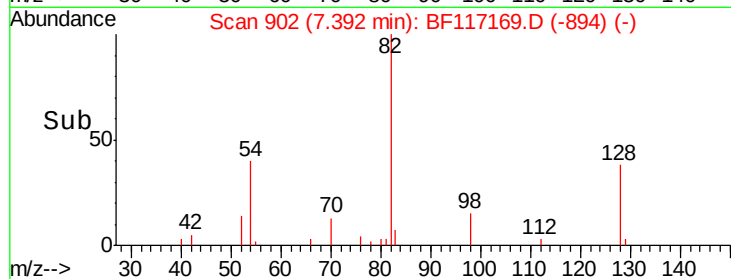
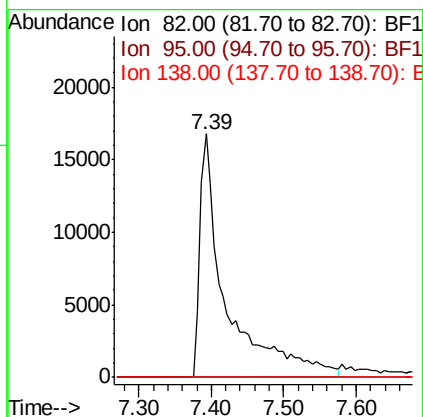
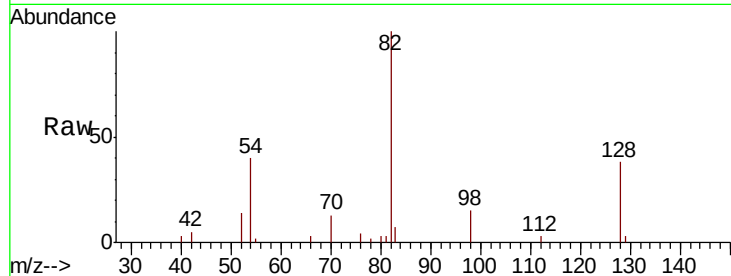




#25  
Isophorone  
Concen: 5.723 ng  
RT: 7.39 min Scan# 902  
Delta R.T. -0.25 min  
Lab File: BF117169.D  
Acq: 19 Sep 2019 2:14

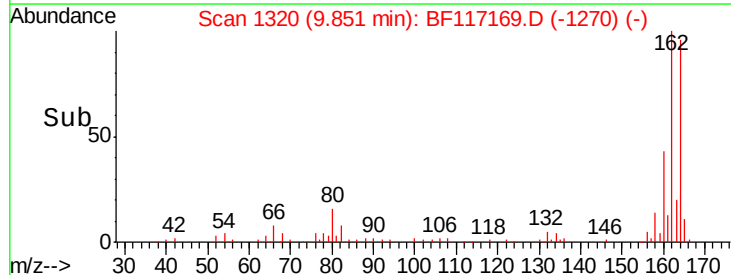
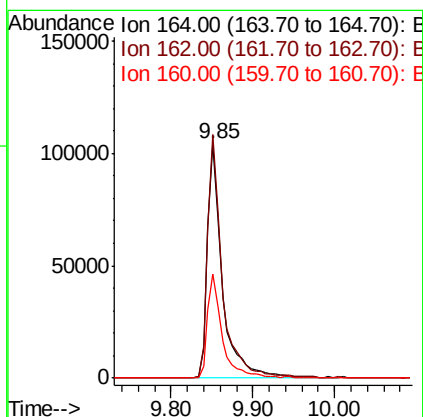
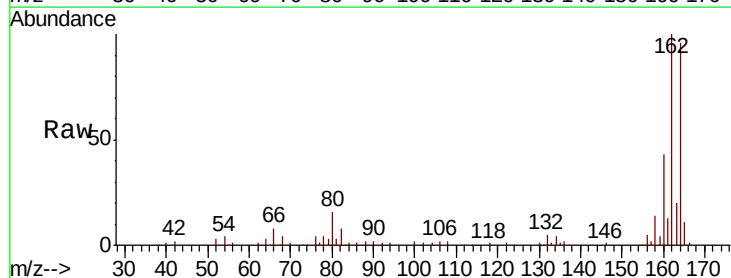
Instrument :  
BNA\_F  
ClientSampleId :

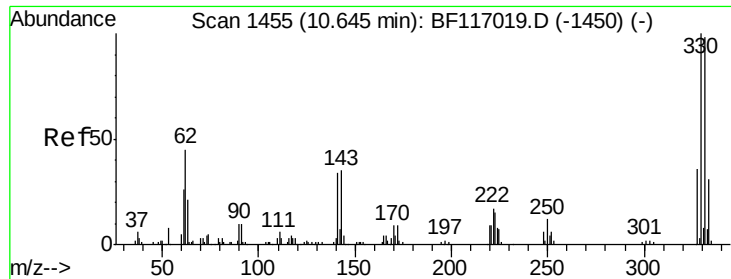
Tot Ion: 82 Resp: 42352  
Ion Ratio Lower Upper  
82 100  
95 0.0 5.8 8.6#  
138 0.0 13.5 20.3#



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.85 min Scan# 1320  
Delta R.T. -0.01 min  
Lab File: BF117169.D  
Acq: 19 Sep 2019 2:14

Tgt Ion: 164 Resp: 132901  
Ion Ratio Lower Upper  
164 100  
162 104.3 83.4 125.2  
160 44.7 36.4 54.6





#42

2,4,6-Tribromophenol

Concen: 13.180 ng

RT: 10.65 min Scan# 1456

Delta R.T. 0.01 min

Lab File: BF117169.D

Acq: 19 Sep 2019 2:14

Instrument :

BNA\_F

ClientSampleId :

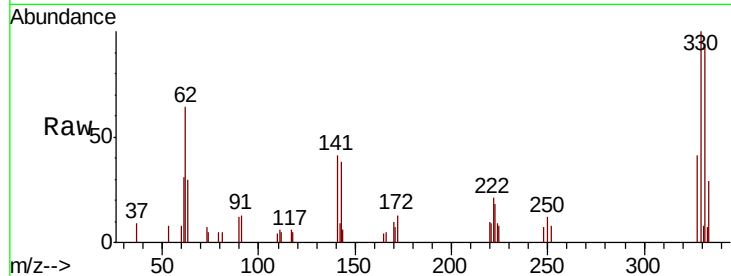
Tot Ion:330 Resp: 14640

Ion Ratio Lower Upper

330 100

332 99.5 78.0 117.0

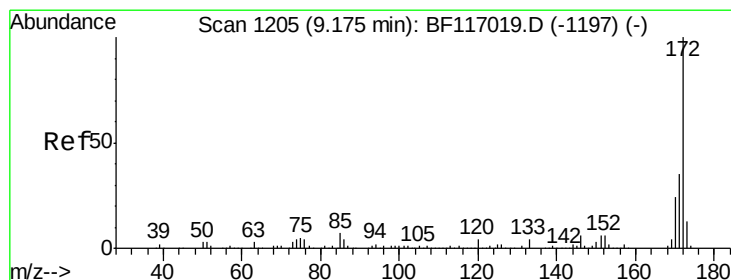
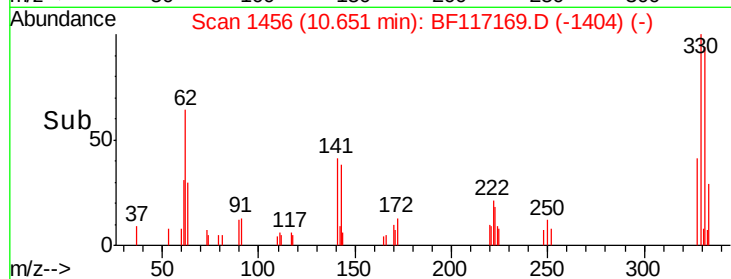
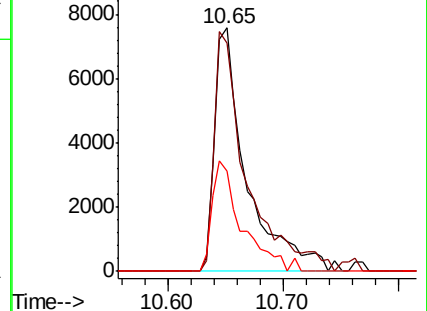
141 42.3 35.8 53.6



Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#45

2-Fluorobiphenyl

Concen: 10.966 ng

RT: 9.18 min Scan# 1206

Delta R.T. 0.01 min

Lab File: BF117169.D

Acq: 19 Sep 2019 2:14

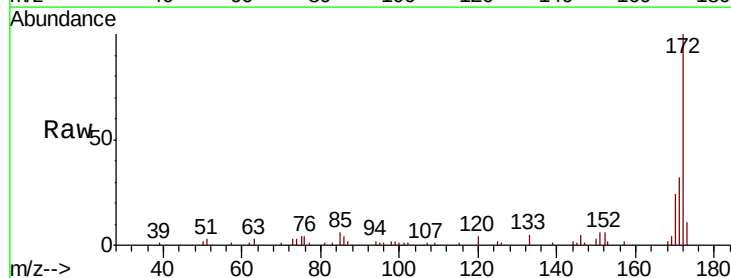
Tgt Ion:172 Resp: 93207

Ion Ratio Lower Upper

172 100

171 32.3 28.2 42.2

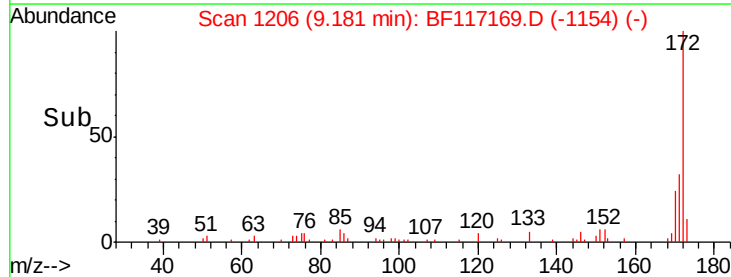
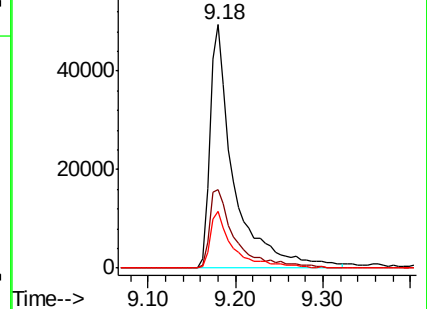
170 23.5 18.9 28.3

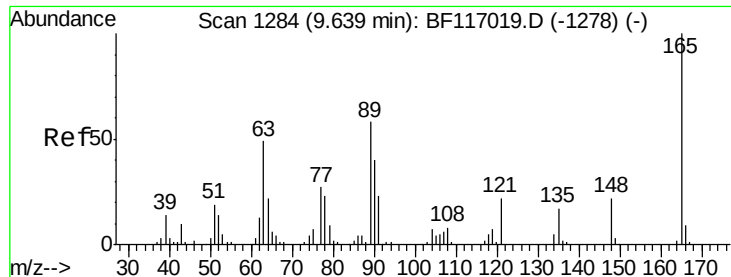


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#51

2,6-Dinitrotoluene

Concen: 8.545 ng

RT: 9.85 min Scan# 1320

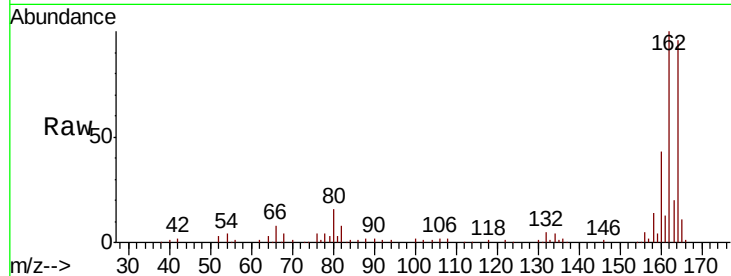
Delta R.T. 0.21 min

Lab File: BF117169.D

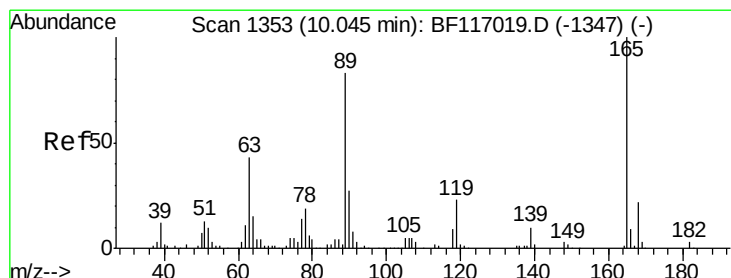
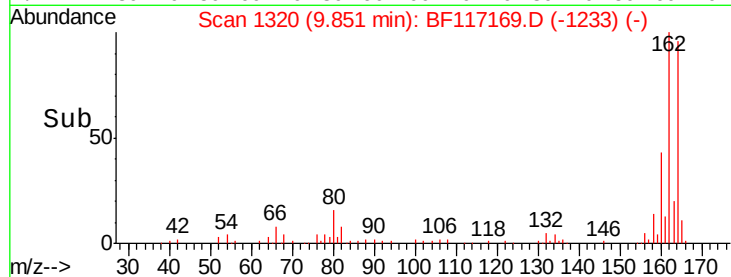
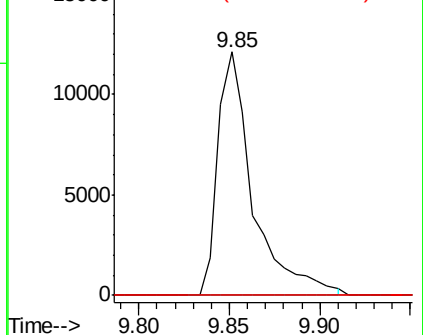
Acq: 19 Sep 2019 2:14

Instrument :  
BNA\_F  
ClientSampleId :

|             |       |            |
|-------------|-------|------------|
| Tot Ion:165 | Resp: | 16377      |
| Ion Ratio   | Lower | Upper      |
| 165         | 100   |            |
| 63          | 0.0   | 41.8 62.8# |
| 89          | 0.0   | 46.5 69.7# |



Abundance Ion 165.00 (164.70 to 165.70): E  
Ion 63.00 (62.70 to 63.70): BF1  
Ion 89.00 (88.70 to 89.70): BF1



#57

2,4-Dinitrotoluene

Concen: 6.583 ng

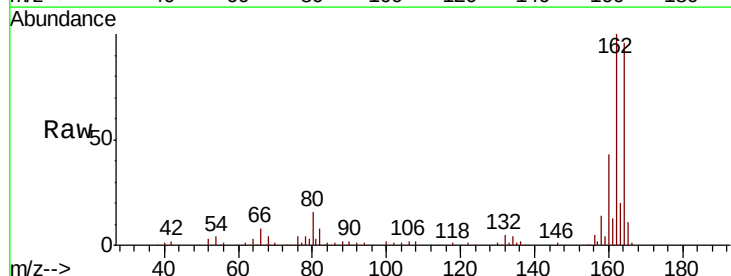
RT: 9.85 min Scan# 1320

Delta R.T. -0.19 min

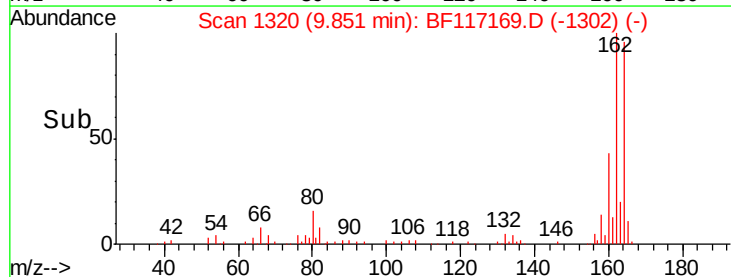
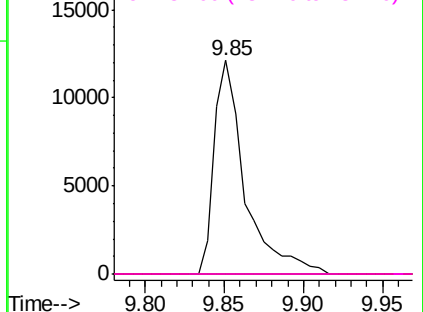
Lab File: BF117169.D

Acq: 19 Sep 2019 2:14

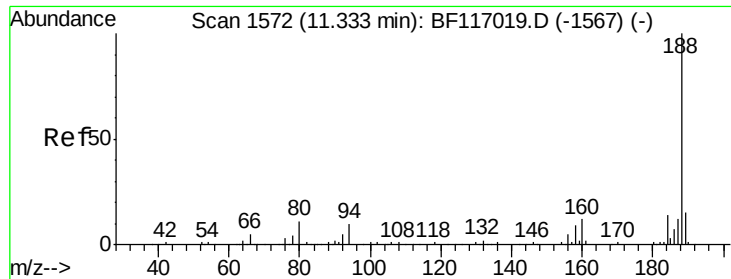
|             |       |            |
|-------------|-------|------------|
| Tgt Ion:165 | Resp: | 16377      |
| Ion Ratio   | Lower | Upper      |
| 165         | 100   |            |
| 63          | 0.0   | 35.0 52.4# |
| 89          | 0.0   | 66.1 99.1# |
| 182         | 0.0   | 2.0 3.0#   |



Abundance Ion 165.00 (164.70 to 165.70): E  
Ion 63.00 (62.70 to 63.70): BF1  
Ion 89.00 (88.70 to 89.70): BF1  
Ion 182.00 (181.70 to 182.70): E



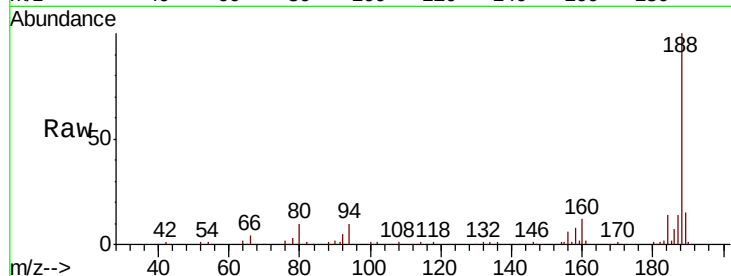




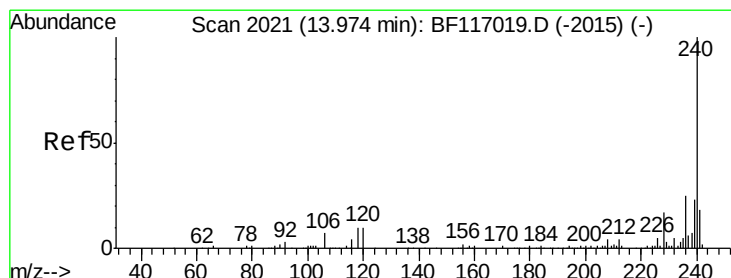
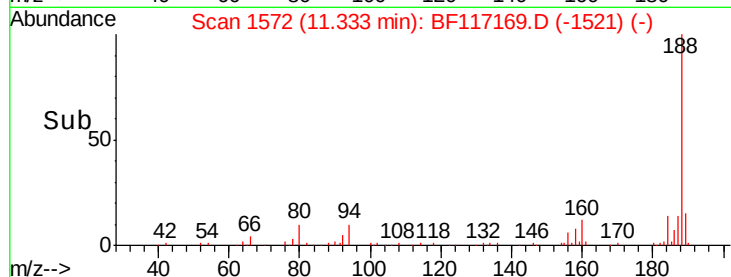
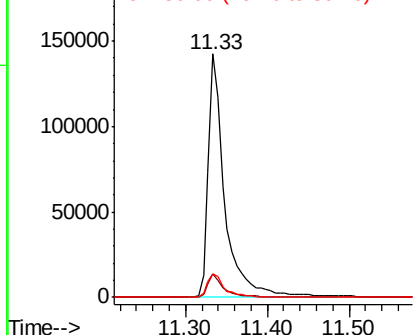
#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.33 min Scan# 1572  
Delta R.T. 0.00 min  
Lab File: BF117169.D  
Acq: 19 Sep 2019 2:14

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 9.7   | 8.2   | 12.2  |
| 80      | 9.6   | 9.0   | 13.6  |

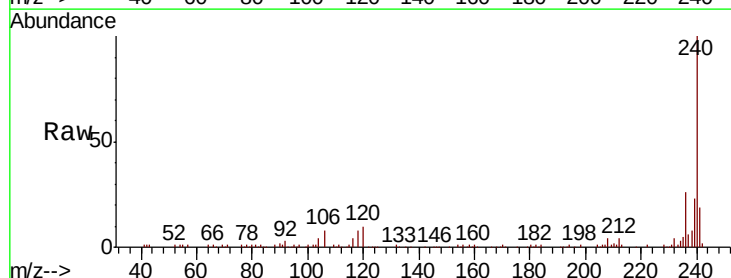


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF1  
Ion 80.00 (79.70 to 80.70): BF1

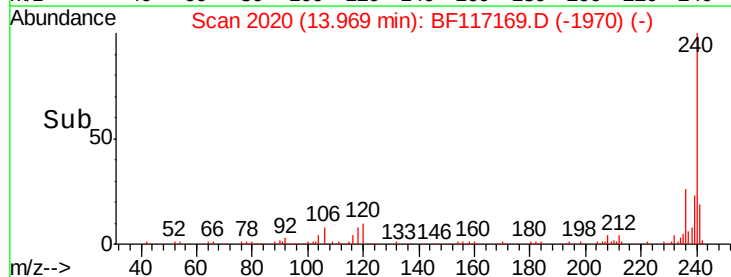
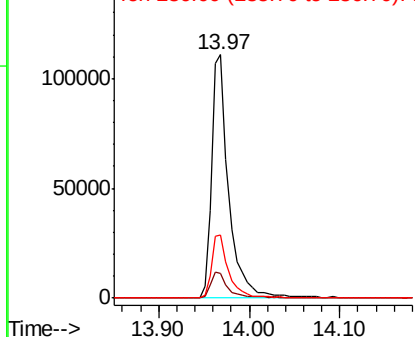


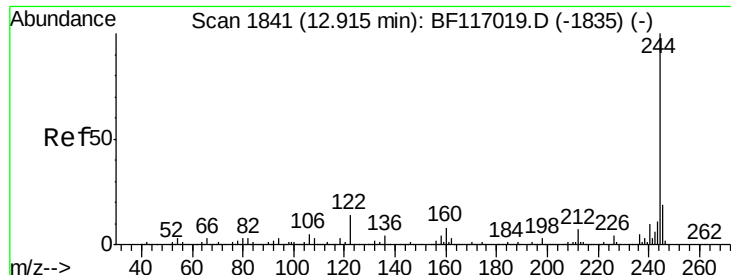
#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 13.97 min Scan# 2020  
Delta R.T. -0.01 min  
Lab File: BF117169.D  
Acq: 19 Sep 2019 2:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 10.0  | 8.3   | 12.5  |
| 236     | 26.1  | 20.3  | 30.5  |



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





#79

Terphenyl-d14

Concen: 10.052 ng

RT: 12.91 min Scan# 1840

Delta R.T. -0.01 min

Lab File: BF117169.D

Acq: 19 Sep 2019 2:14

Instrument :

BNA\_F

ClientSampleId :

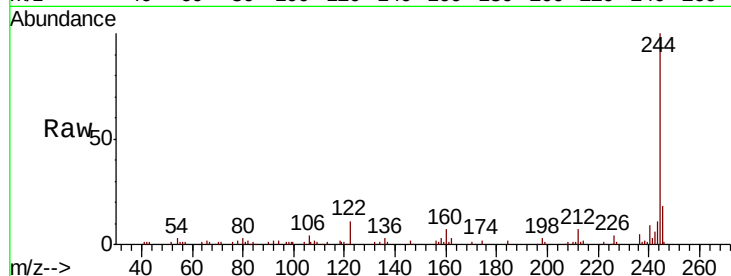
Tot Ion:244 Resp: 78884

Ion Ratio Lower Upper

244 100

212 7.4 5.8 8.8

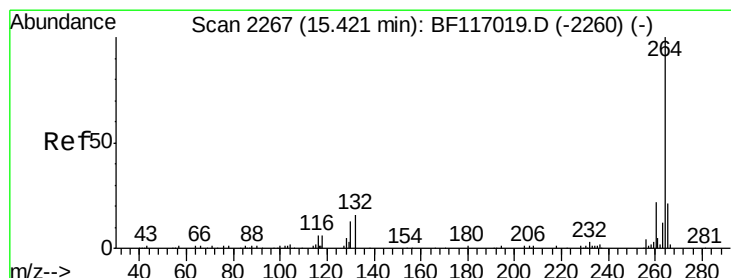
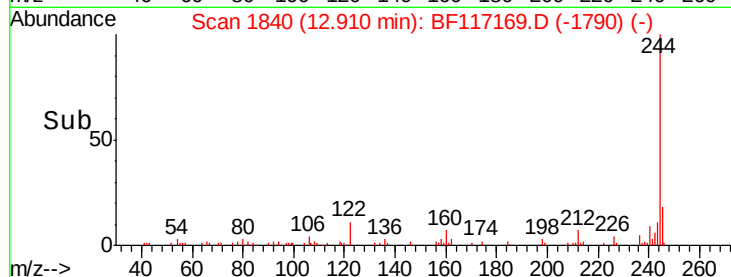
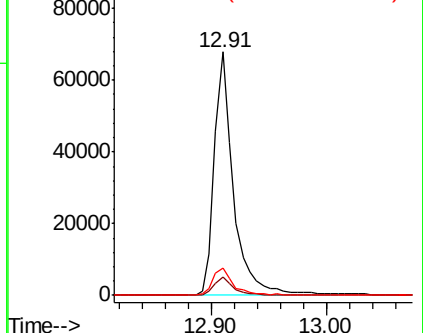
122 11.2 11.3 16.9#



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



#87

Perylene-d12

Concen: 20.000 ng

RT: 15.42 min Scan# 2266

Delta R.T. -0.01 min

Lab File: BF117169.D

Acq: 19 Sep 2019 2:14

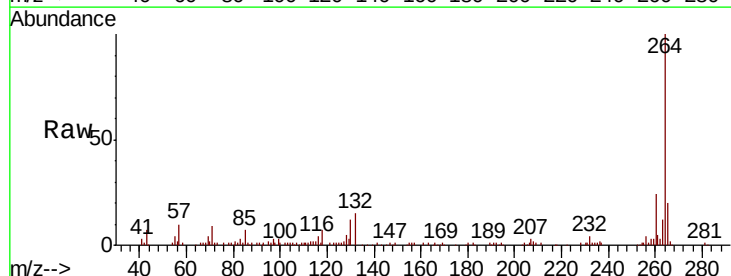
Tgt Ion:264 Resp: 137036

Ion Ratio Lower Upper

264 100

260 24.3 17.6 26.4

265 20.2 16.6 24.8



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

