

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071919\  
 Data File : BF115695.D  
 Acq On : 20 Jul 2019 1:59  
 Operator : HP/JU  
 Sample : K3618-06  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Jul 20 04:02:10 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF071219.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jul 12 14:03:52 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.88  | 152  | 213510   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.16  | 136  | 783323   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 9.92  | 164  | 332322   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 11.40 | 188  | 493101   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 14.04 | 240  | 344247   | 20.00 | ng    | 0.00     |
| 87) Perylene-d12          | 15.52 | 264  | 280636   | 20.00 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.53  | 112  | 1349169  | 103.36 | ng    | 0.02     |
| 7) Phenol-d6                | 6.52  | 99   | 1630595  | 98.45  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.45  | 82   | 1183241  | 87.83  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 10.71 | 330  | 394197   | 101.62 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.24  | 172  | 1878894  | 98.96  | ng    | -0.01    |
| 79) Terphenyl-d14           | 12.99 | 244  | 1515765  | 81.25  | ng    | 0.00     |

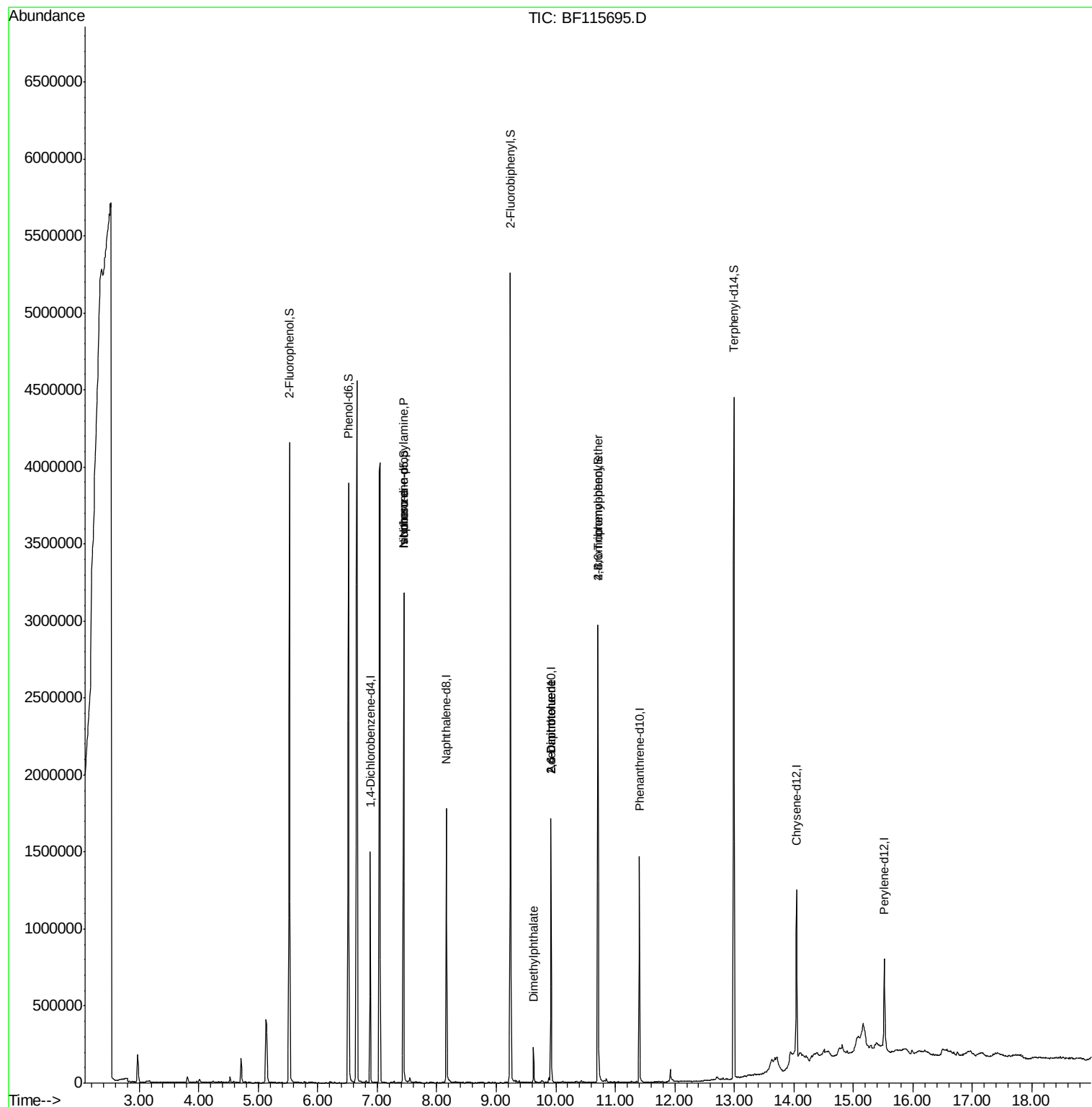
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|--------------------------------|-------|------|----------|--------|-------|--------|
| 19) n-Nitroso-di-n-propylamine | 7.45  | 70   | 157845   | 14.613 | ng    | # 78   |
| 25) Isophorone                 | 7.45  | 82   | 1168590  | 43.351 | ng    | # 64   |
| 50) Dimethylphthalate          | 9.63  | 163  | 88462    | 3.538  | ng    | 99     |
| 51) 2,6-Dinitrotoluene         | 9.92  | 165  | 42602    | 7.498  | ng    | # 27   |
| 57) 2,4-Dinitrotoluene         | 9.92  | 165  | 42602    | 5.787  | ng    | # 24   |
| 67) 4-Bromophenyl-phenylether  | 10.71 | 248  | 23961    | 4.252  | ng    | # 1    |

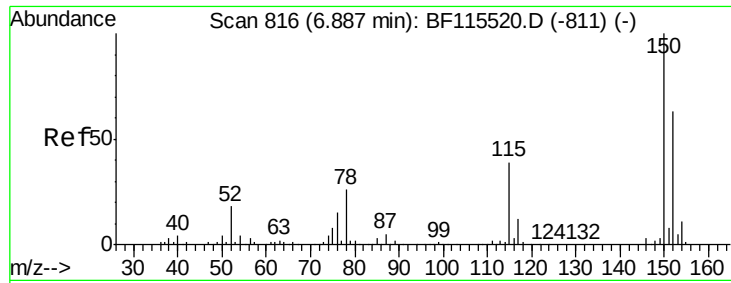
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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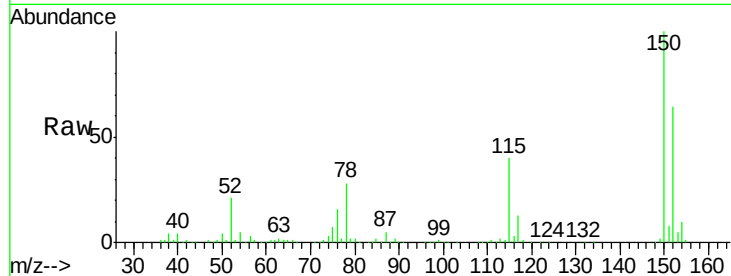


#1

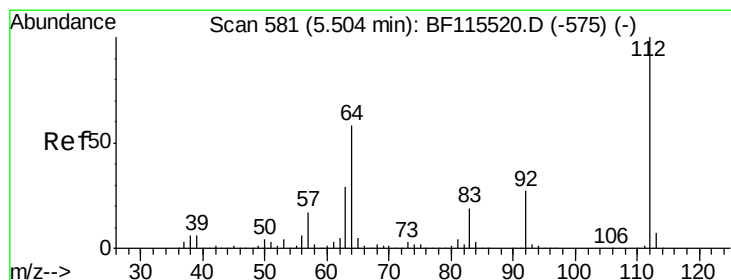
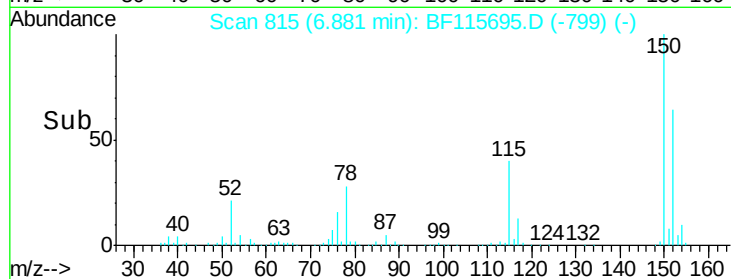
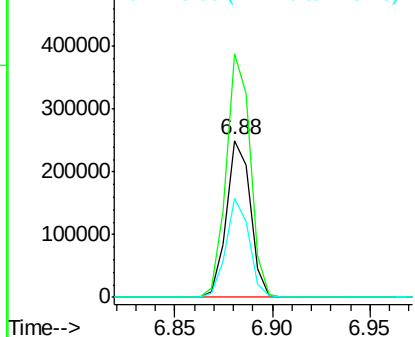
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.88 min Scan# 815  
Delta R.T. -0.01 min  
Lab File: BF115695.D  
Acq: 20 Jul 2019 1:59

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 213510  
Ion Ratio Lower Upper  
152 100  
150 155.1 129.7 194.5  
115 62.7 48.2 72.4



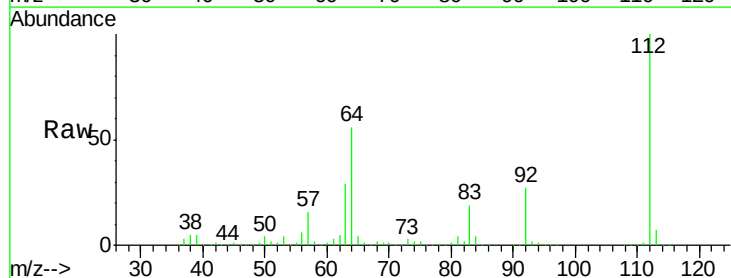
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



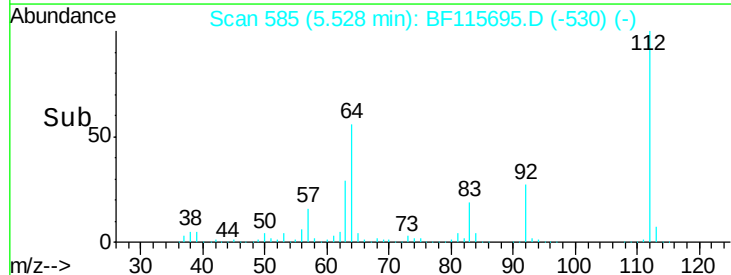
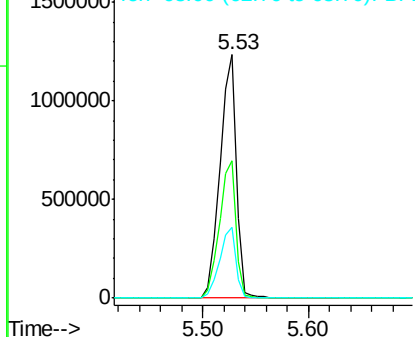
#5

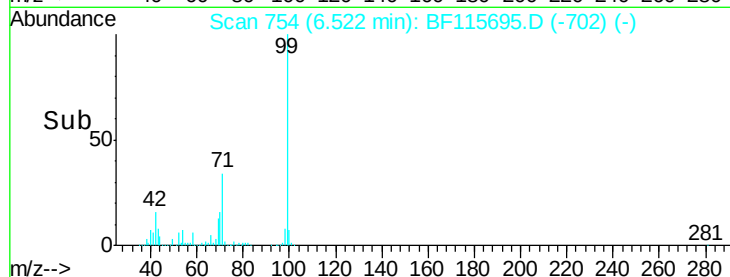
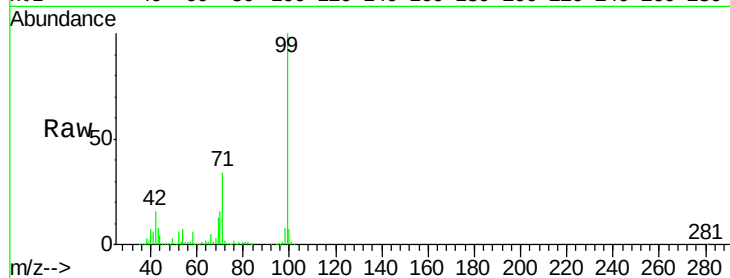
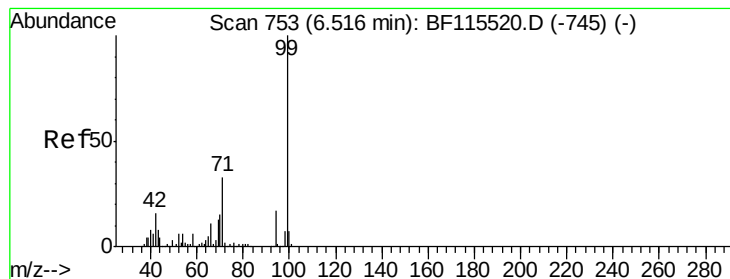
2-Fluorophenol  
Concen: 103.360 ng  
RT: 5.53 min Scan# 585  
Delta R.T. 0.02 min  
Lab File: BF115695.D  
Acq: 20 Jul 2019 1:59

Tgt Ion:112 Resp: 1349169  
Ion Ratio Lower Upper  
112 100  
64 56.4 46.8 70.2  
63 29.1 24.1 36.1



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: 98.449 ng

RT: 6.52 min Scan# 754

Delta R.T. 0.01 min

Lab File: BF115695.D

Acq: 20 Jul 2019 1:59

Instrument :

BNA\_F

ClientSampleId :

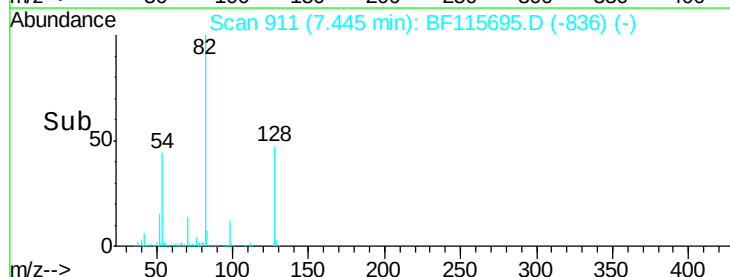
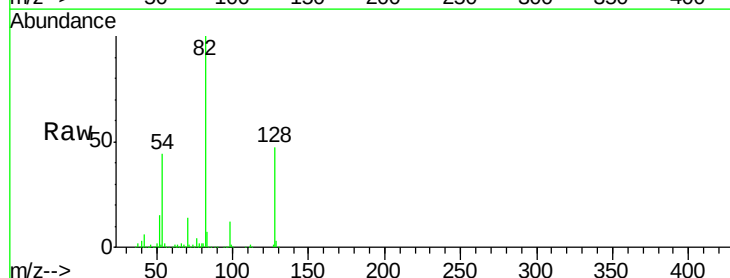
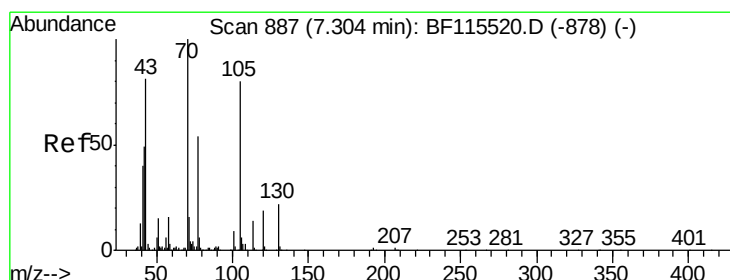
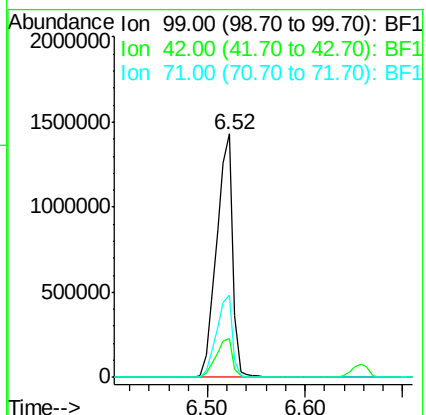
Tot Ion: 99 Resp: 1630595

Ion Ratio Lower Upper

99 100

42 15.9 13.6 20.4

71 33.7 28.5 42.7



#19

n-Nitroso-di-n-propylamine

Concen: 14.613 ng

RT: 7.45 min Scan# 911

Delta R.T. 0.14 min

Lab File: BF115695.D

Acq: 20 Jul 2019 1:59

Tgt Ion: 70 Resp: 157845

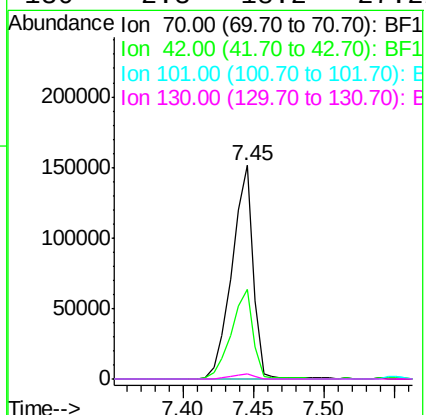
Ion Ratio Lower Upper

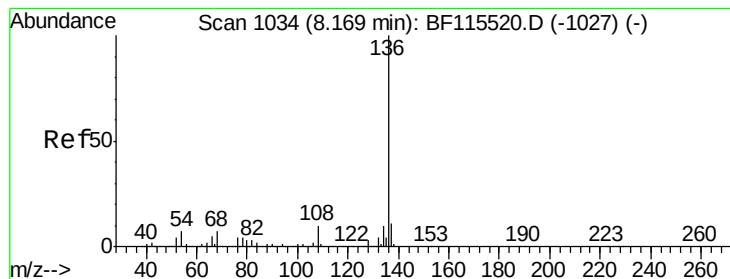
70 100

42 41.8 39.6 59.4

101 0.0 8.1 12.1#

130 2.3 18.2 27.2#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.16 min Scan# 1033

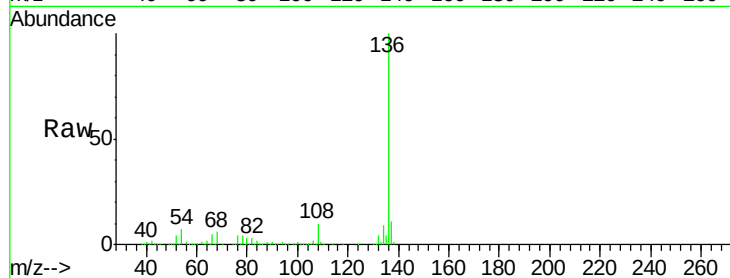
Delta R.T. -0.01 min

Lab File: BF115695.D

Acq: 20 Jul 2019 1:59

Instrument :  
BNA\_F  
ClientSampled :

|             |              |
|-------------|--------------|
| Tot Ion:136 | Resp: 783323 |
| Ion Ratio   | Lower Upper  |
| 136 100     |              |
| 137 11.4    | 9.0 13.4     |
| 54 7.3      | 5.6 8.4      |
| 68 6.4      | 5.0 7.6      |

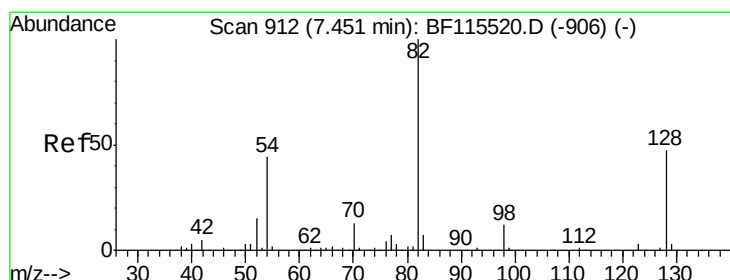
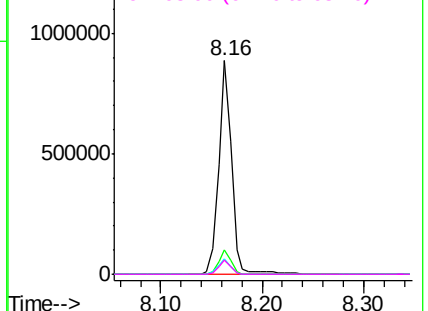
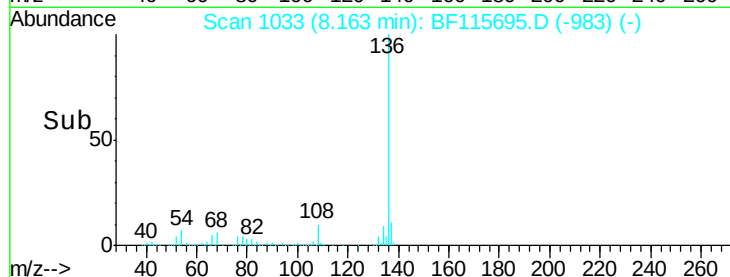


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1



#23

Nitrobenzene-d5

Concen: 87.833 ng

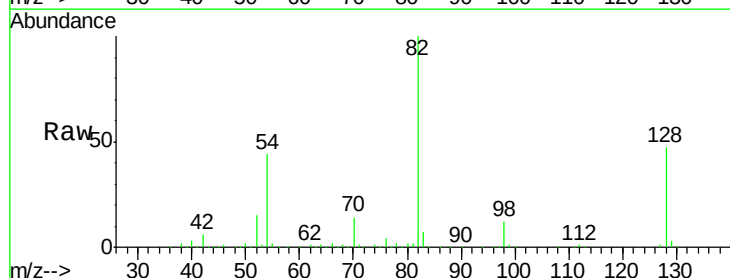
RT: 7.45 min Scan# 911

Delta R.T. -0.01 min

Lab File: BF115695.D

Acq: 20 Jul 2019 1:59

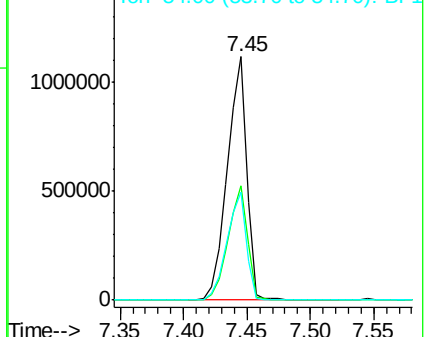
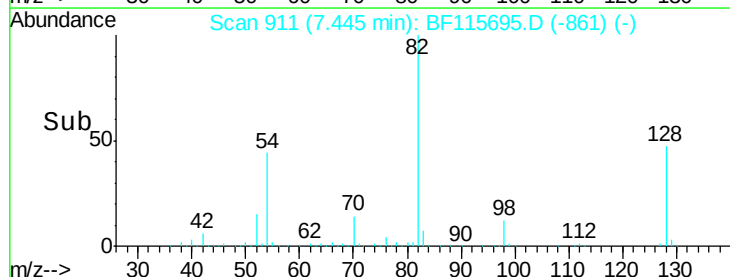
|             |               |
|-------------|---------------|
| Tgt Ion: 82 | Resp: 1183241 |
| Ion Ratio   | Lower Upper   |
| 82 100      |               |
| 128 47.1    | 38.6 57.8     |
| 54 44.4     | 35.6 53.4     |

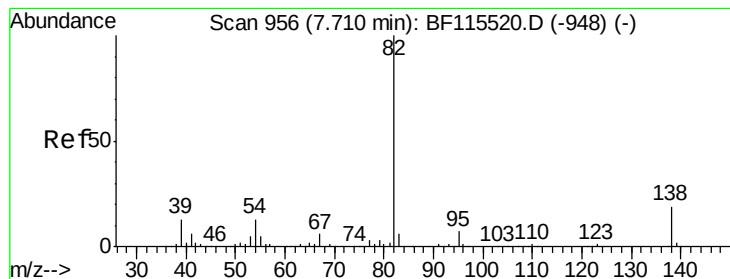


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 43.351 ng

RT: 7.45 min Scan# 911

Delta R.T. -0.26 min

Lab File: BF115695.D

Acq: 20 Jul 2019 1:59

Instrument :

BNA\_F

ClientSampled :

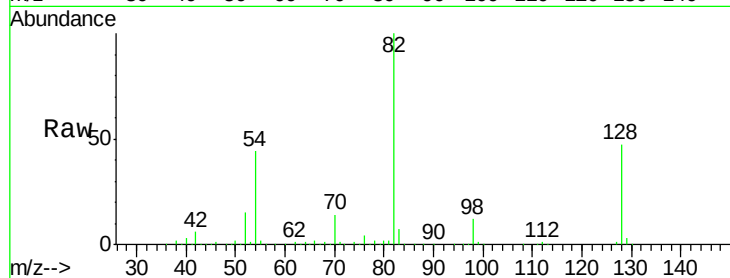
Tot Ion: 82 Resp: 1168590

Ion Ratio Lower Upper

82 100

95 0.0 5.5 8.3#

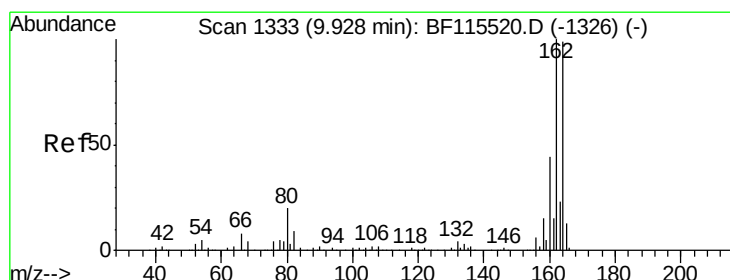
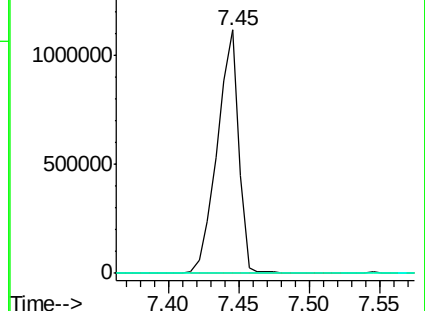
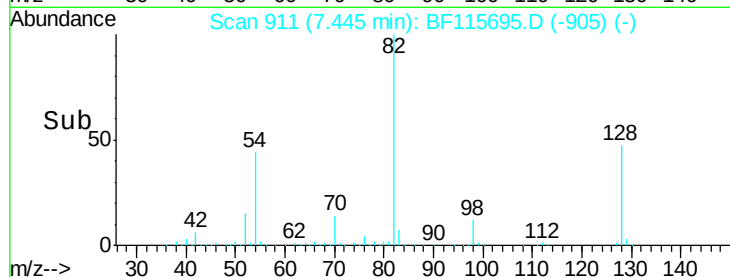
138 0.0 14.9 22.3#



Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 95.00 (94.70 to 95.70): BF1

Ion 138.00 (137.70 to 138.70): BF1



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.92 min Scan# 1332

Delta R.T. -0.01 min

Lab File: BF115695.D

Acq: 20 Jul 2019 1:59

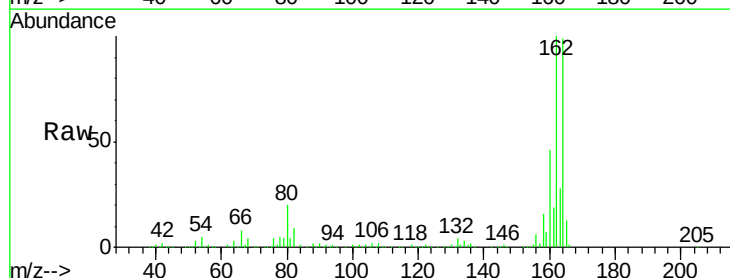
Tgt Ion:164 Resp: 332322

Ion Ratio Lower Upper

164 100

162 101.0 82.9 124.3

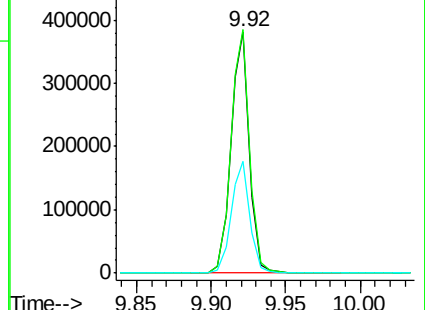
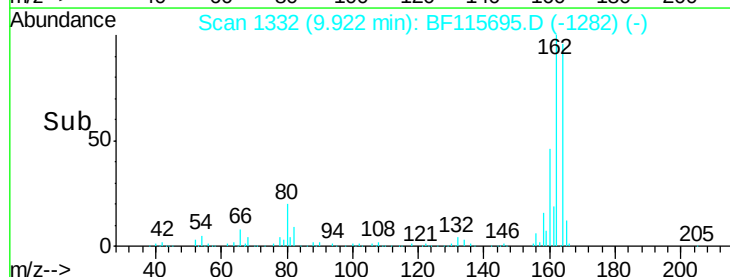
160 46.3 36.8 55.2

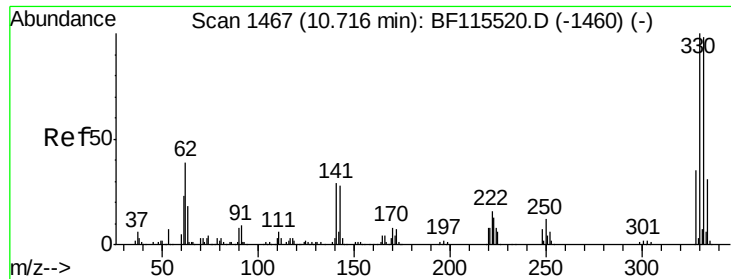


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

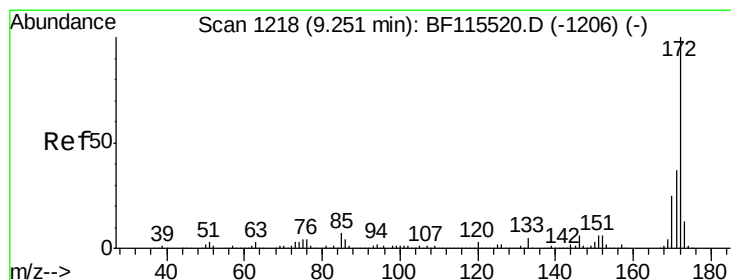
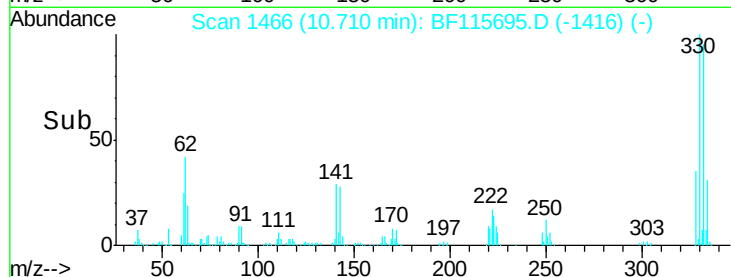
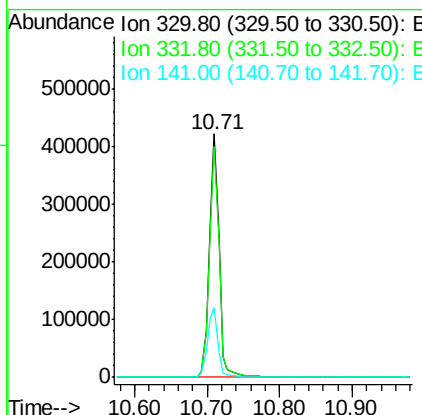
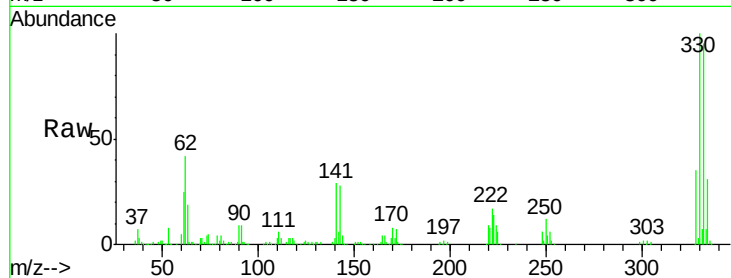




#42  
 2,4,6-Tribromophenol  
 Concen: 101.623 ng  
 RT: 10.71 min Scan# 1466  
 Delta R.T. -0.01 min  
 Lab File: BF115695.D  
 Acq: 20 Jul 2019 1:59

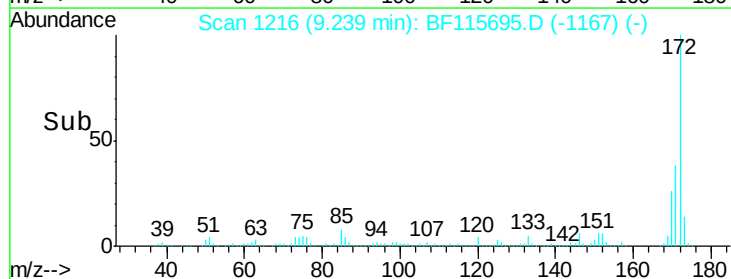
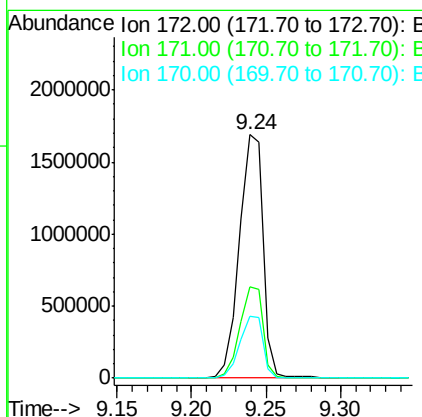
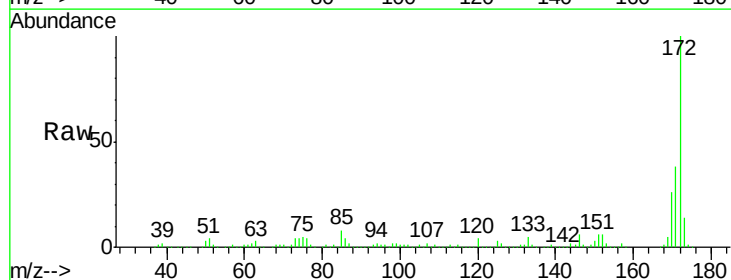
Instrument :  
 BNA\_F  
 ClientSampleId :

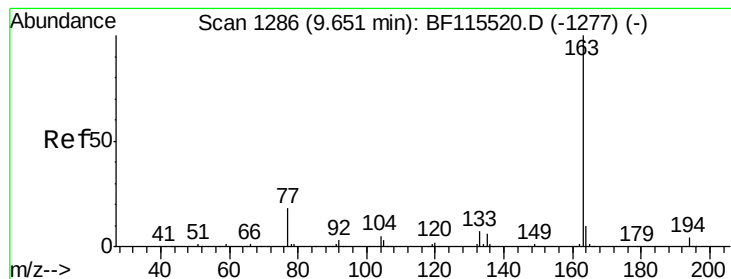
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 95.6  | 77.4  | 116.2 |
| 141     | 31.2  | 22.4  | 33.6  |



#45  
 2-Fluorobiphenyl  
 Concen: 98.958 ng  
 RT: 9.24 min Scan# 1216  
 Delta R.T. -0.01 min  
 Lab File: BF115695.D  
 Acq: 20 Jul 2019 1:59

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 37.7  | 30.6  | 46.0  |
| 170     | 25.6  | 20.5  | 30.7  |





#50

Dimethylphthalate

Concen: 3.538 ng

RT: 9.63 min Scan# 1282

Delta R.T. -0.02 min

Lab File: BF115695.D

Acq: 20 Jul 2019 1:59

Instrument :

BNA\_F

ClientSampled :

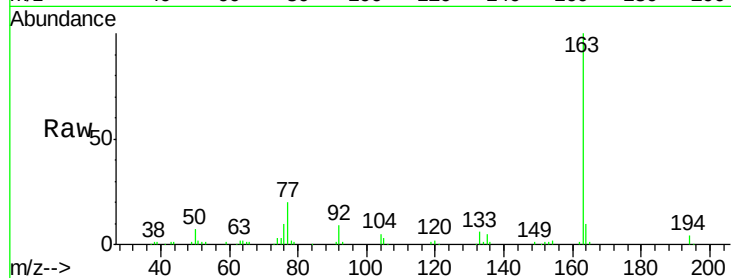
Tot Ion:163 Resp: 88462

Ion Ratio Lower Upper

163 100

194 3.8 3.3 4.9

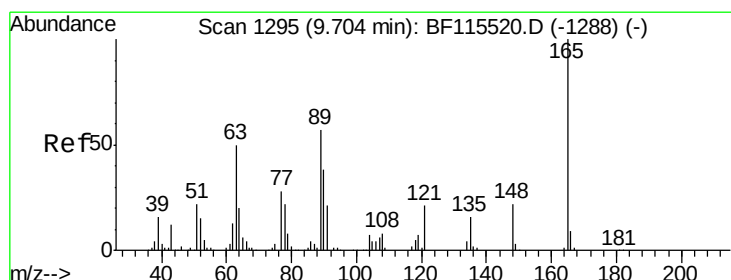
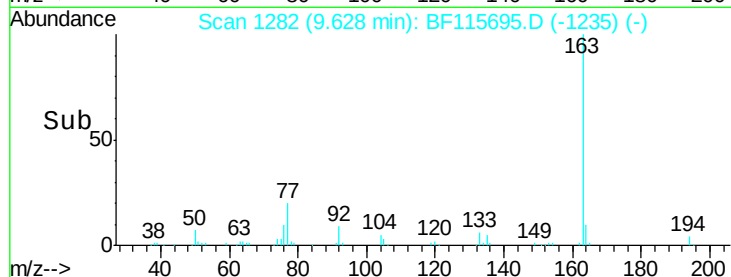
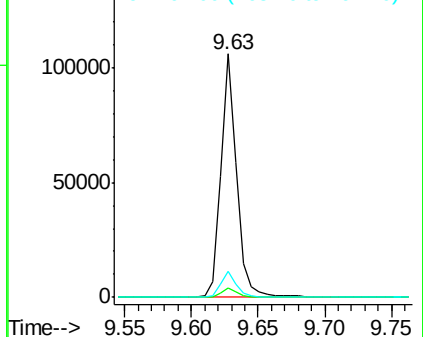
164 10.5 8.7 13.1



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



#51

2,6-Dinitrotoluene

Concen: 7.498 ng

RT: 9.92 min Scan# 1332

Delta R.T. 0.22 min

Lab File: BF115695.D

Acq: 20 Jul 2019 1:59

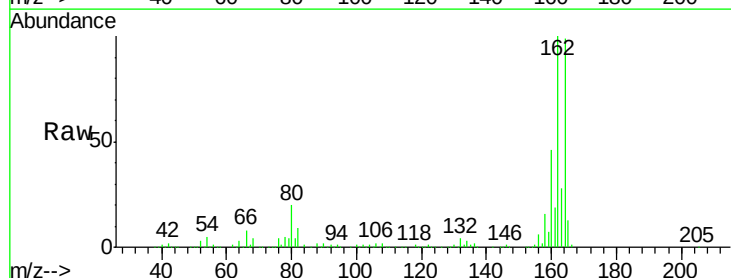
Tgt Ion:165 Resp: 42602

Ion Ratio Lower Upper

165 100

63 1.2 40.6 61.0#

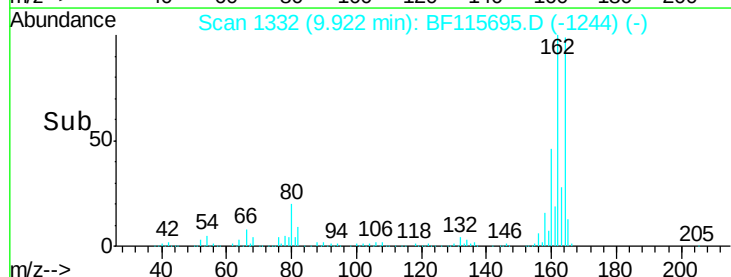
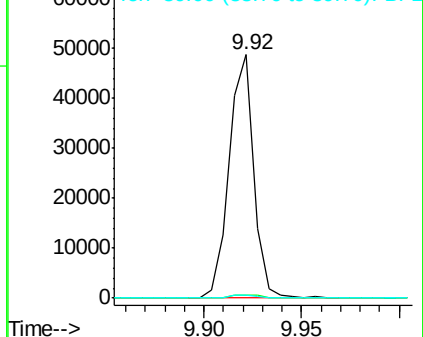
89 1.5 43.9 65.9#



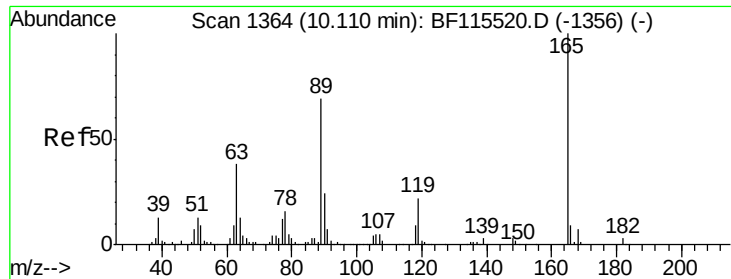
Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1



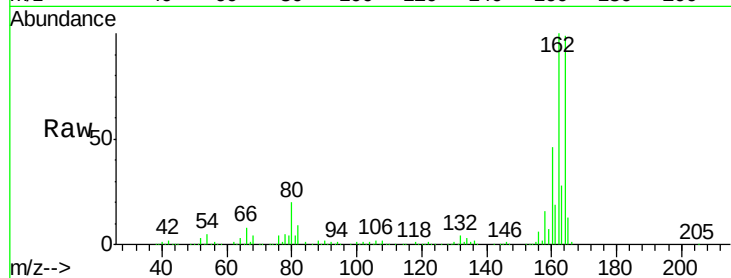




#57  
 2,4-Dinitrotoluene  
 Concen: 5.787 ng  
 RT: 9.92 min Scan# 1332  
 Delta R.T. -0.19 min  
 Lab File: BF115695.D  
 Acq: 20 Jul 2019 1:59

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.2   | 34.9  | 52.3# |
| 89      | 1.5   | 57.5  | 86.3# |
| 182     | 0.0   | 2.2   | 3.4#  |

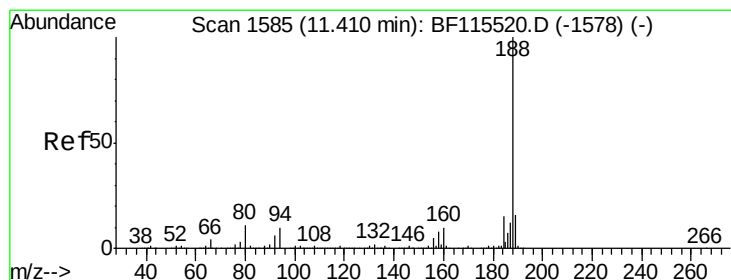
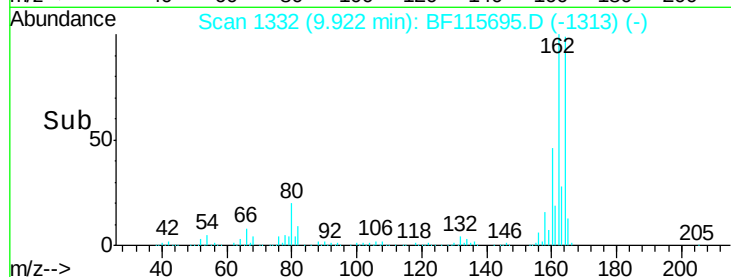
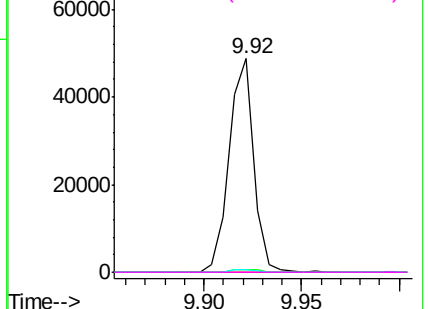


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

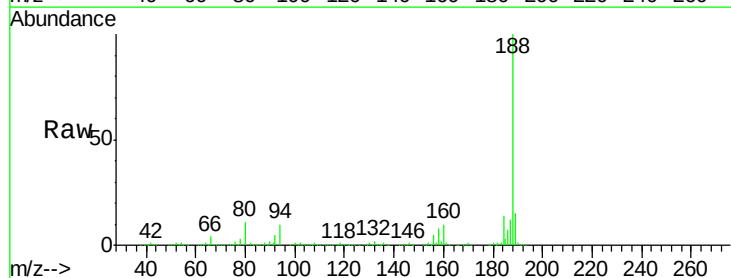
Ion 89.00 (88.70 to 89.70): BF1

Ion 182.00 (181.70 to 182.70): E



#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.40 min Scan# 1584  
 Delta R.T. -0.01 min  
 Lab File: BF115695.D  
 Acq: 20 Jul 2019 1:59

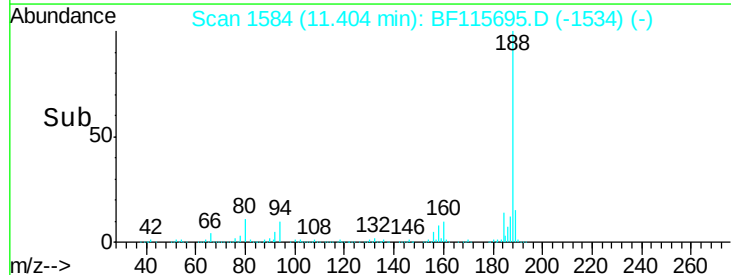
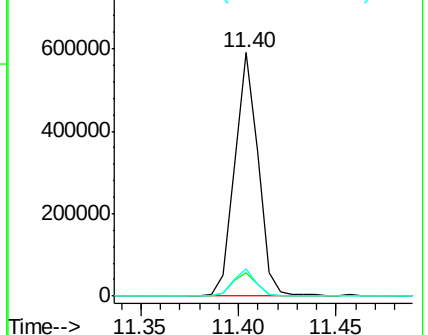
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 9.8   | 7.8   | 11.6  |
| 80      | 11.2  | 8.6   | 13.0  |

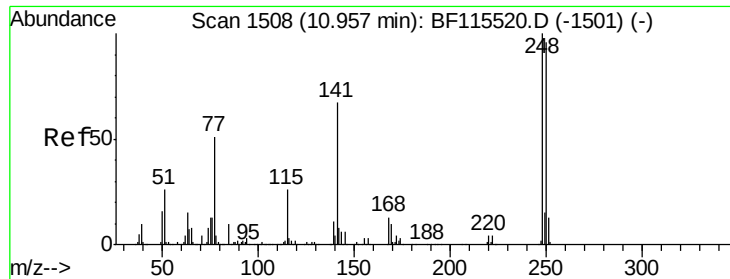


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1

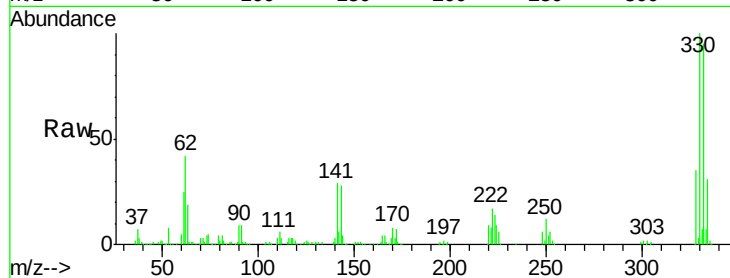




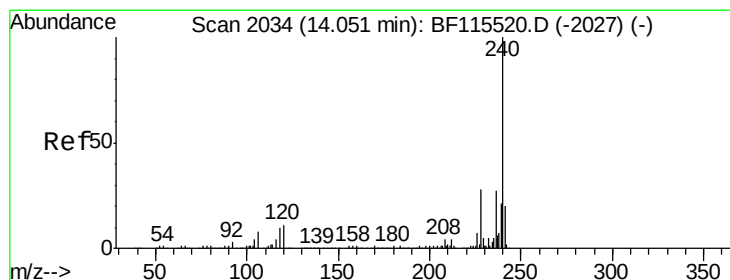
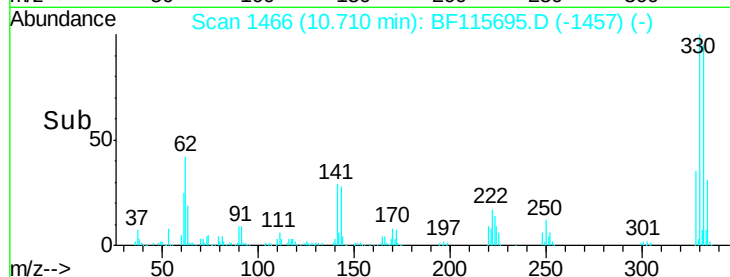
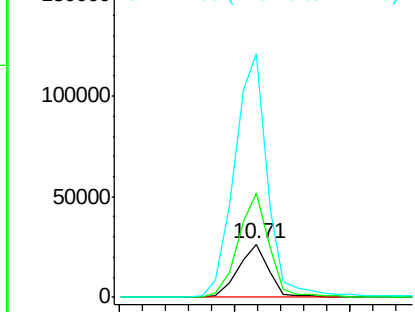
#67  
4-Bromophenyl-phenylether  
Concen: 4.252 ng  
RT: 10.71 min Scan# 1466  
Delta R.T. -0.25 min  
Lab File: BF115695.D  
Acq: 20 Jul 2019 1:59

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:248 Resp: 23961  
Ion Ratio Lower Upper  
248 100  
250 197.8 78.0 117.0#  
141 460.5 57.7 86.5#

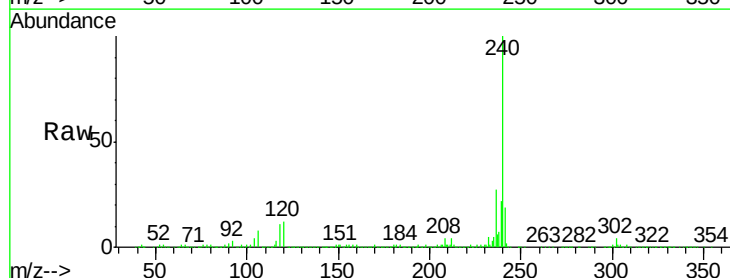


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

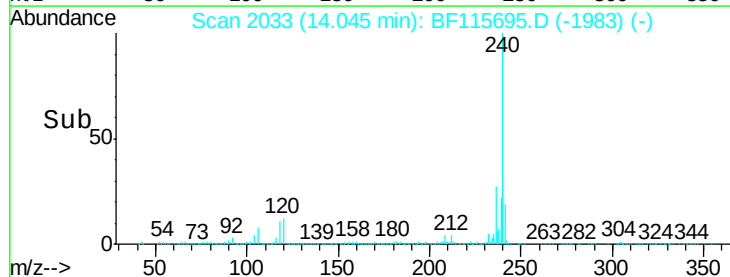
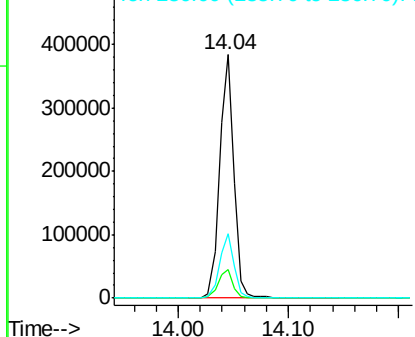


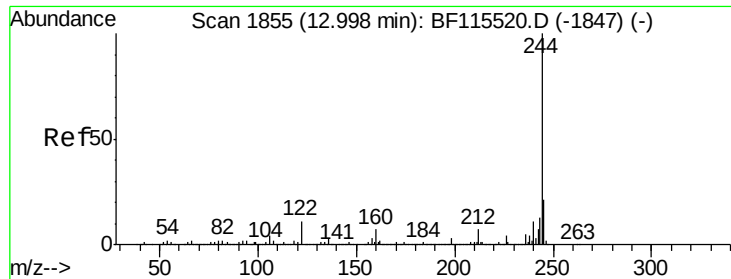
#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.04 min Scan# 2033  
Delta R.T. -0.01 min  
Lab File: BF115695.D  
Acq: 20 Jul 2019 1:59

Tgt Ion:240 Resp: 344247  
Ion Ratio Lower Upper  
240 100  
120 11.5 8.6 13.0  
236 26.7 21.3 31.9



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: 81.245 ng

RT: 12.99 min Scan# 1854

Delta R.T. -0.01 min

Lab File: BF115695.D

Acq: 20 Jul 2019 1:59

Instrument :

BNA\_F

ClientSampleId :

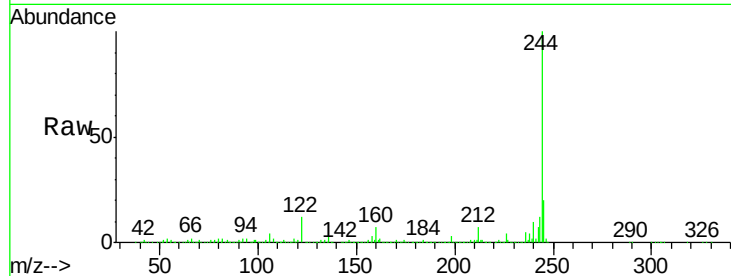
Tot Ion:244 Resp: 1515765

Ion Ratio Lower Upper

244 100

212 6.9 6.0 9.0

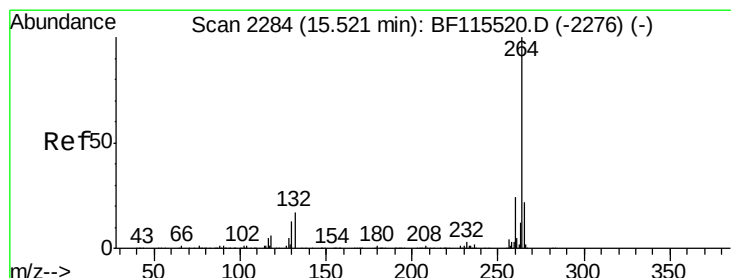
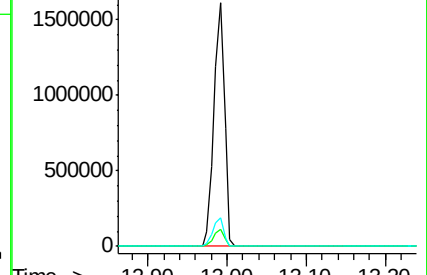
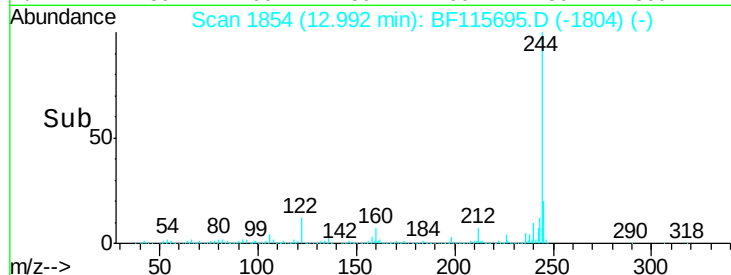
122 11.7 8.6 12.8



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: 15.52 min Scan# 2284

Delta R.T. 0.00 min

Lab File: BF115695.D

Acq: 20 Jul 2019 1:59

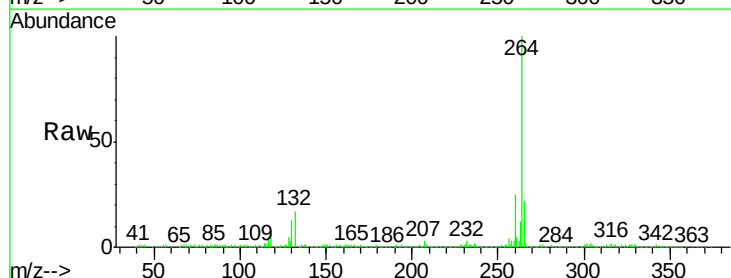
Tgt Ion:264 Resp: 280636

Ion Ratio Lower Upper

264 100

260 24.6 19.8 29.8

265 21.9 17.7 26.5



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

