

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF072419\  
 Data File : BF115749.D  
 Acq On : 24 Jul 2019 14:40  
 Operator : HP/JU  
 Sample : PB121678BL  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Jul 24 16:36:54 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

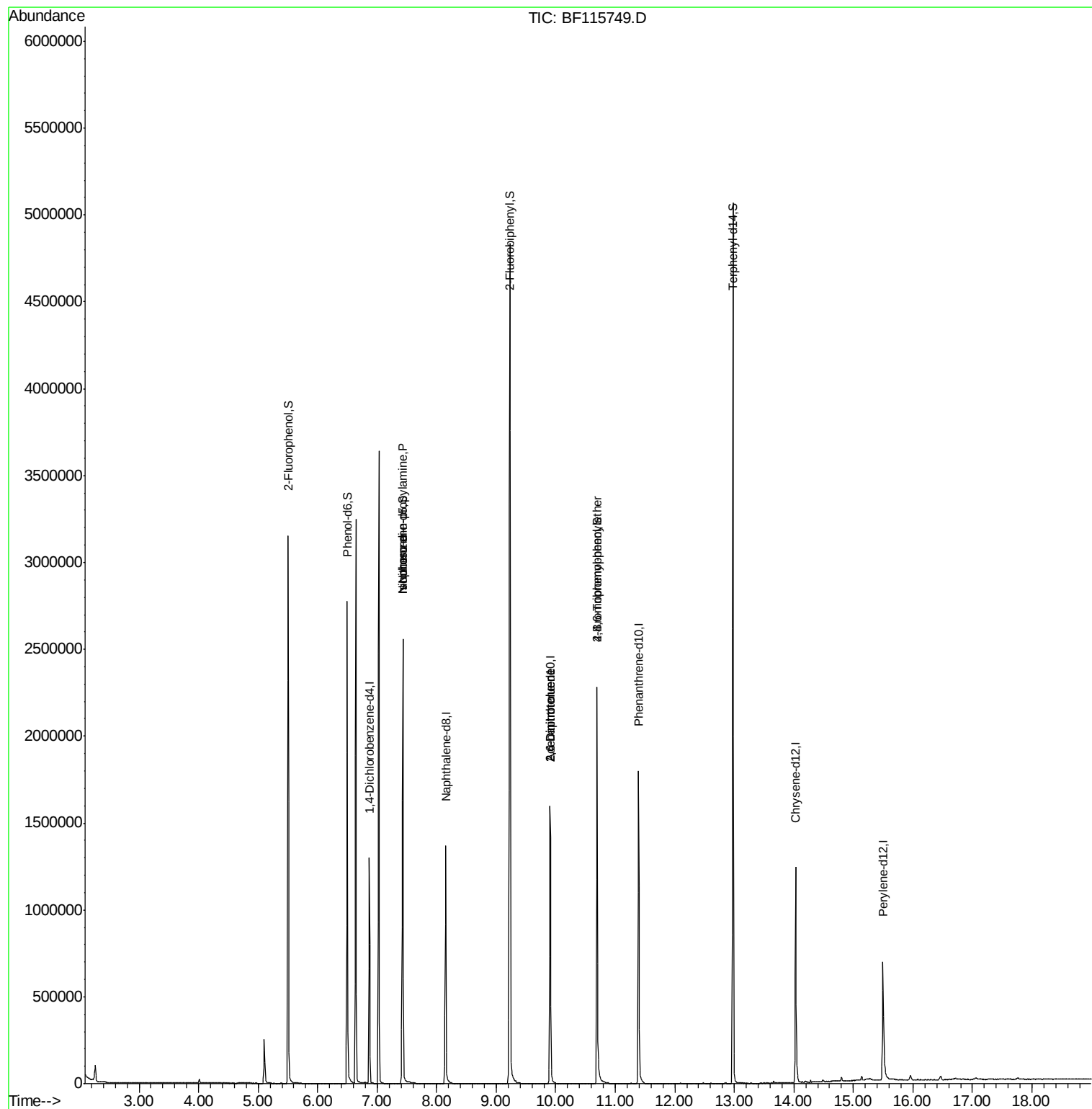
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.87  | 152  | 182205   | 20.00  | ng    | -0.02    |
| 21) Naphthalene-d8             | 8.15  | 136  | 713589   | 20.00  | ng    | -0.02    |
| 39) Acenaphthene-d10           | 9.90  | 164  | 395891   | 20.00  | ng    | -0.02    |
| 64) Phenanthrene-d10           | 11.39 | 188  | 715477   | 20.00  | ng    | -0.02    |
| 76) Chrysene-d12               | 14.03 | 240  | 499637   | 20.00  | ng    | -0.02    |
| 87) Perylene-d12               | 15.50 | 264  | 444359   | 20.00  | ng    | -0.02    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.50  | 112  | 916091   | 82.24  | ng    | 0.00     |
| 7) Phenol-d6                   | 6.50  | 99   | 1156600  | 81.83  | ng    | -0.02    |
| 23) Nitrobenzene-d5            | 7.43  | 82   | 1089873  | 88.81  | ng    | -0.02    |
| 42) 2,4,6-Tribromophenol       | 10.70 | 330  | 354477   | 76.71  | ng    | -0.02    |
| 45) 2-Fluorobiphenyl           | 9.23  | 172  | 1944356  | 85.96  | ng    | -0.02    |
| 79) Terphenyl-d14              | 12.98 | 244  | 1983117  | 73.24  | ng    | -0.02    |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.43  | 70   | 145565   | 15.791 | ng    | # 77     |
| 25) Isophorone                 | 7.43  | 82   | 1065858  | 43.404 | ng    | # 64     |
| 51) 2,6-Dinitrotoluene         | 9.90  | 165  | 51088    | 7.547  | ng    | # 27     |
| 57) 2,4-Dinitrotoluene         | 9.90  | 165  | 51395    | 5.861  | ng    | # 24     |
| 67) 4-Bromophenyl-phenylether  | 10.70 | 248  | 21302    | 2.605  | ng    | # 1      |

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

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF072419\  
Data File : BF115749.D  
Acq On : 24 Jul 2019 14:40  
Operator : HP/JU  
Sample : PB121678BL  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :

Quant Time: Jul 24 16:36:54 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



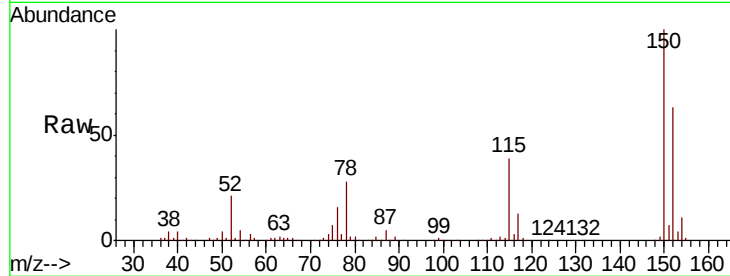


#1

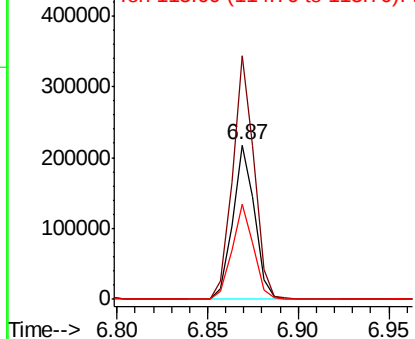
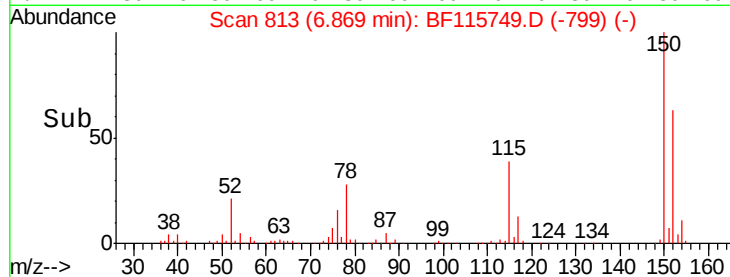
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.87 min Scan# 813  
Delta R.T. -0.02 min  
Lab File: BF115749.D  
Acq: 24 Jul 2019 14:40

Instrument :  
BNA\_F  
ClientSampled :

Tot Ion:152 Resp: 182205  
Ion Ratio Lower Upper  
152 100  
150 157.8 129.7 194.5  
115 61.4 48.2 72.4



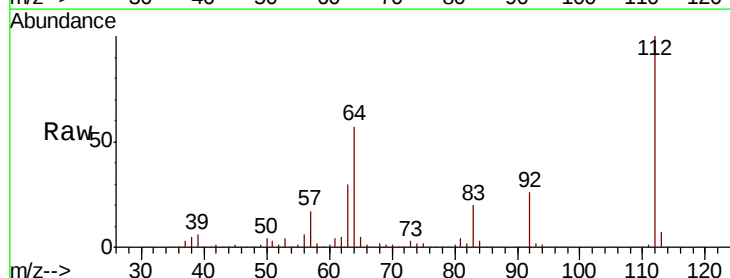
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



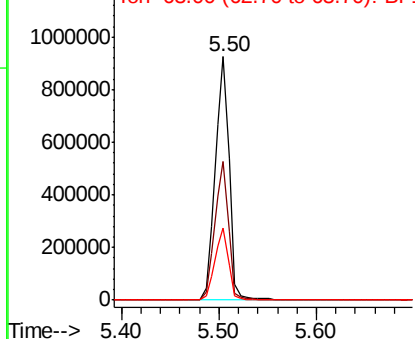
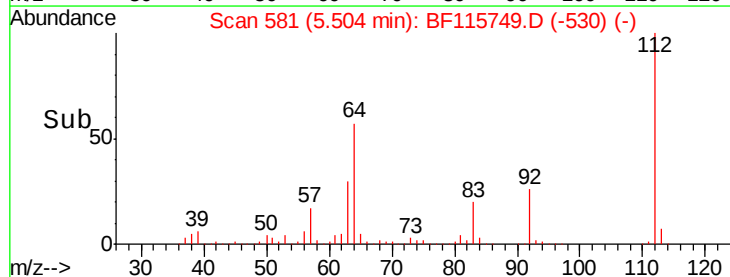
#5

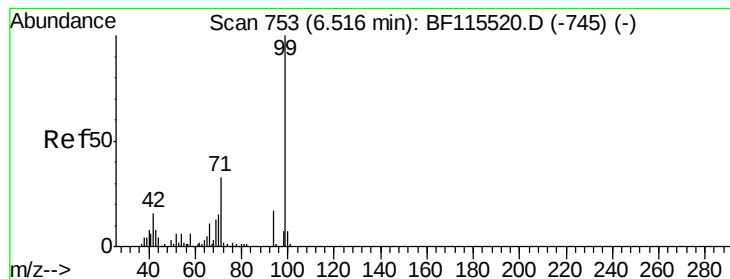
2-Fluorophenol  
Concen: 82.240 ng  
RT: 5.50 min Scan# 581  
Delta R.T. 0.00 min  
Lab File: BF115749.D  
Acq: 24 Jul 2019 14:40

Tgt Ion:112 Resp: 916091  
Ion Ratio Lower Upper  
112 100  
64 57.1 46.8 70.2  
63 29.7 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: 81.829 ng

RT: 6.50 min Scan# 750

Delta R.T. -0.02 min

Lab File: BF115749.D

Acq: 24 Jul 2019 14:40

Instrument :

BNA\_F

ClientSampled :

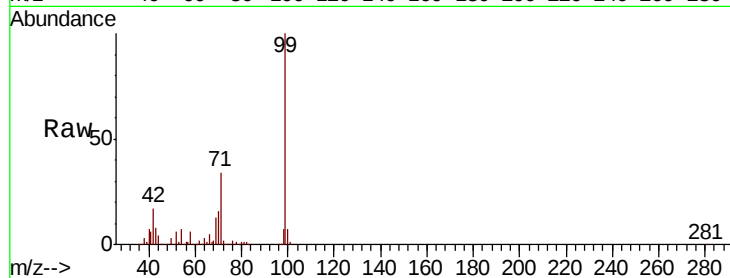
Tot Ion: 99 Resp: 1156600

Ion Ratio Lower Upper

99 100

42 17.2 13.6 20.4

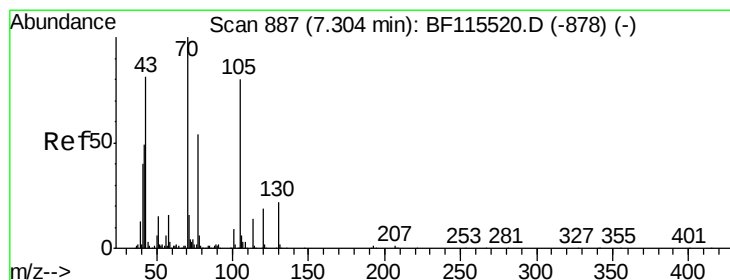
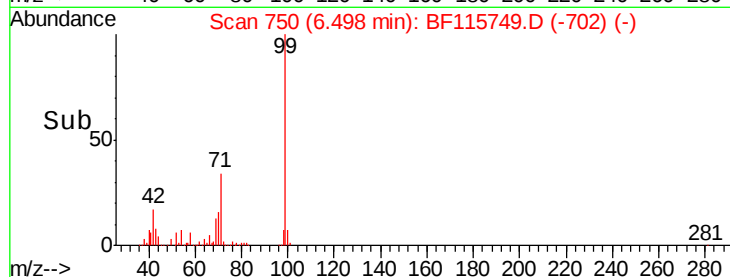
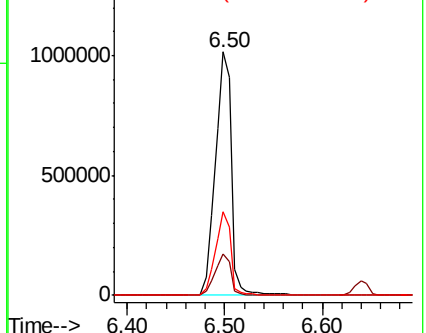
71 34.3 28.5 42.7



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



#19

n-Nitroso-di-n-propylamine

Concen: 15.791 ng

RT: 7.43 min Scan# 909

Delta R.T. 0.13 min

Lab File: BF115749.D

Acq: 24 Jul 2019 14:40

Tgt Ion: 70 Resp: 145565

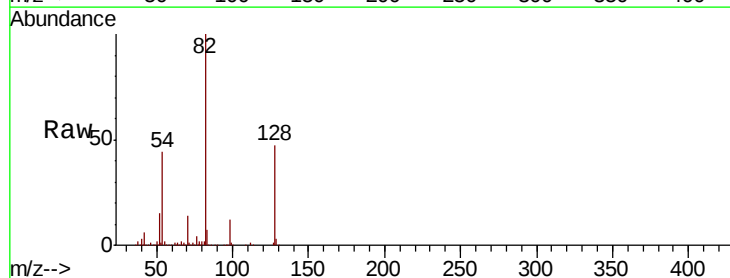
Ion Ratio Lower Upper

70 100

42 40.9 39.6 59.4

101 0.0 8.1 12.1#

130 2.1 18.2 27.2#

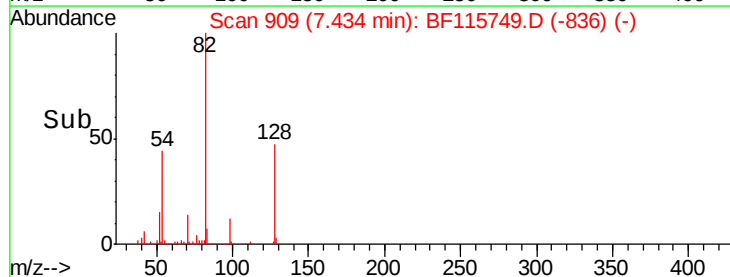
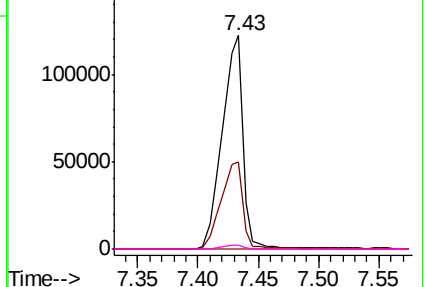


Abundance Ion 70.00 (69.70 to 70.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 101.00 (100.70 to 101.70): BF1

Ion 130.00 (129.70 to 130.70): BF1

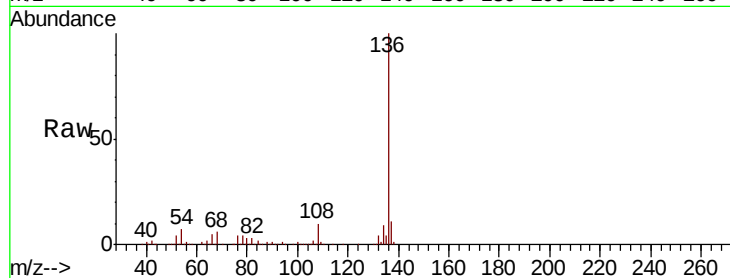




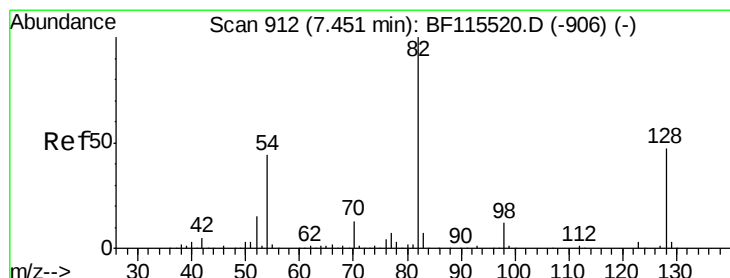
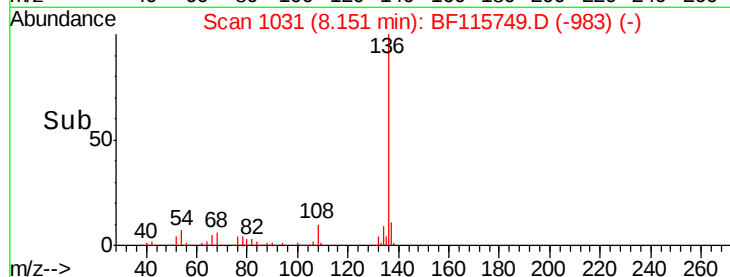
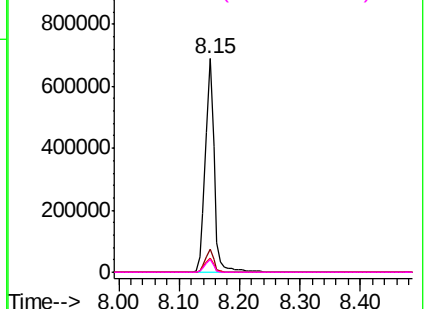
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.15 min Scan# 1031  
Delta R.T. -0.02 min  
Lab File: BF115749.D  
Acq: 24 Jul 2019 14:40

Instrument :  
BNA\_F  
ClientSampleId :

|             |       |        |
|-------------|-------|--------|
| Tot Ion:136 | Resp: | 713589 |
| Ion Ratio   | Lower | Upper  |
| 136 100     |       |        |
| 137 10.9    | 9.0   | 13.4   |
| 54 6.9      | 5.6   | 8.4    |
| 68 6.1      | 5.0   | 7.6    |

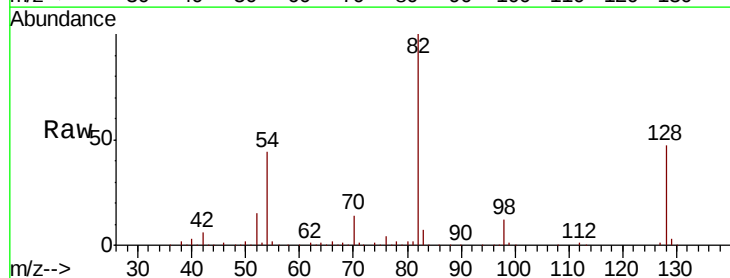


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF1  
Ion 68.00 (67.70 to 68.70): BF1

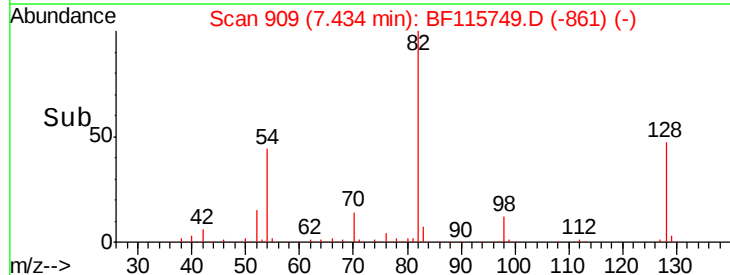
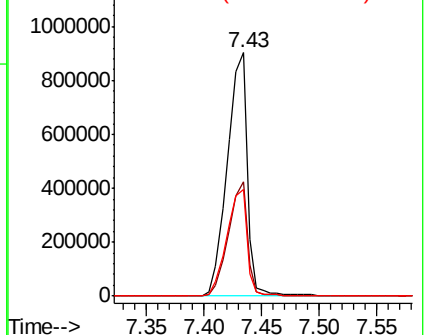


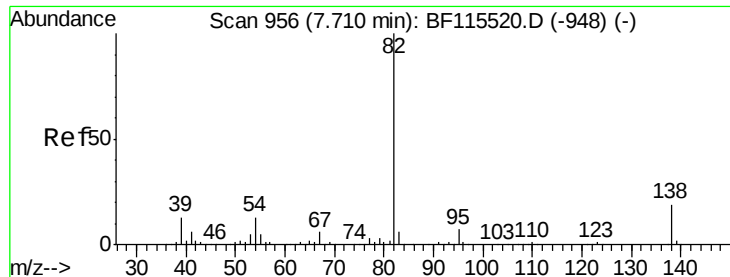
#23  
Nitrobenzene-d5  
Concen: 88.808 ng  
RT: 7.43 min Scan# 909  
Delta R.T. -0.02 min  
Lab File: BF115749.D  
Acq: 24 Jul 2019 14:40

|             |               |
|-------------|---------------|
| Tgt Ion: 82 | Resp: 1089873 |
| Ion Ratio   | Lower Upper   |
| 82 100      |               |
| 128 47.2    | 38.6 57.8     |
| 54 44.0     | 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: 43.404 ng

RT: 7.43 min Scan# 909

Delta R.T. -0.28 min

Lab File: BF115749.D

Acq: 24 Jul 2019 14:40

Instrument :

BNA\_F

ClientSampleID :

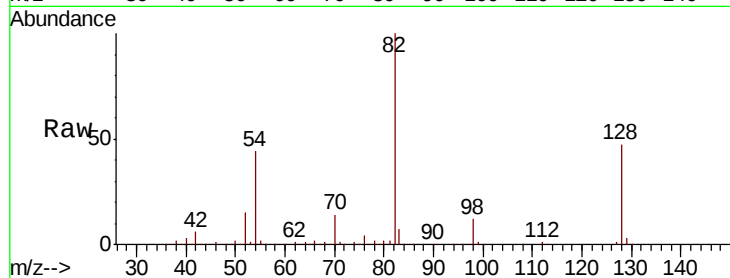
Tot Ion: 82 Resp: 1065858

Ion Ratio Lower Upper

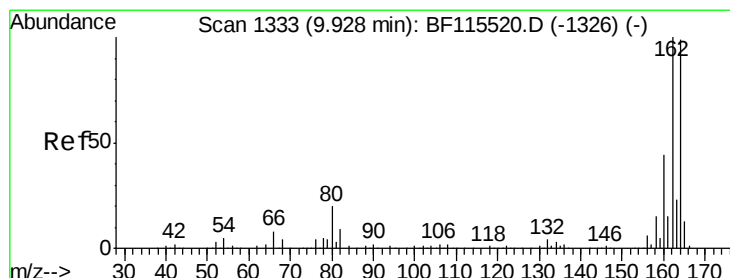
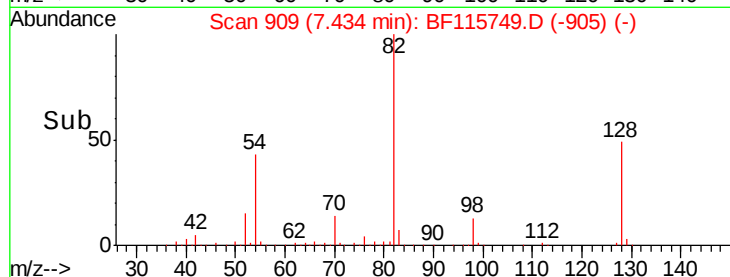
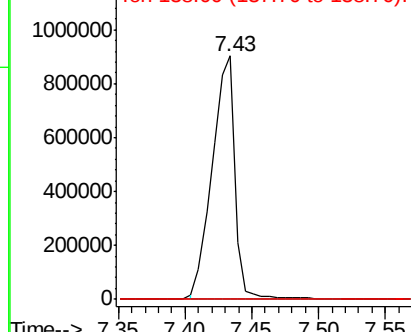
82 100

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): E



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.90 min Scan# 1329

Delta R.T. -0.02 min

Lab File: BF115749.D

Acq: 24 Jul 2019 14:40

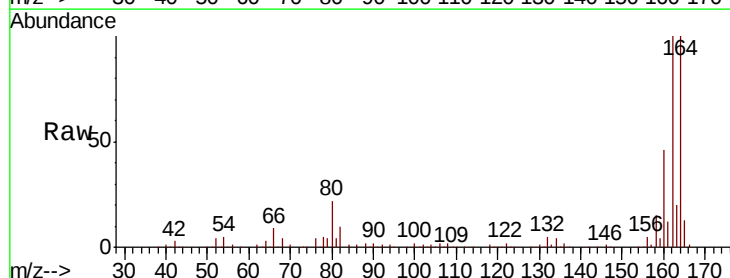
Tgt Ion: 164 Resp: 395891

Ion Ratio Lower Upper

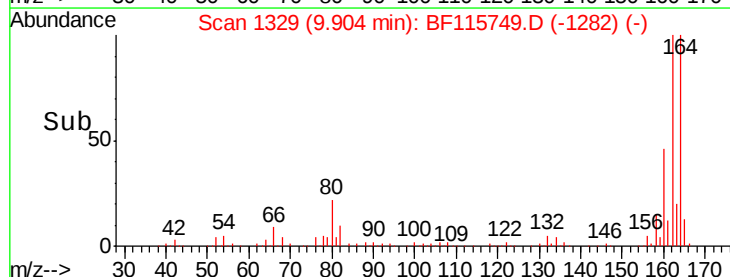
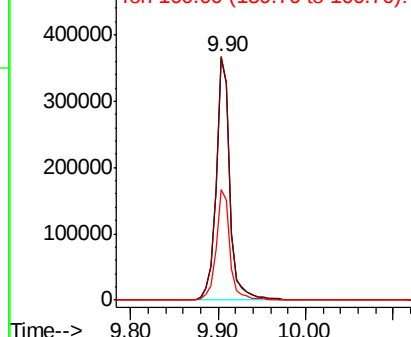
164 100

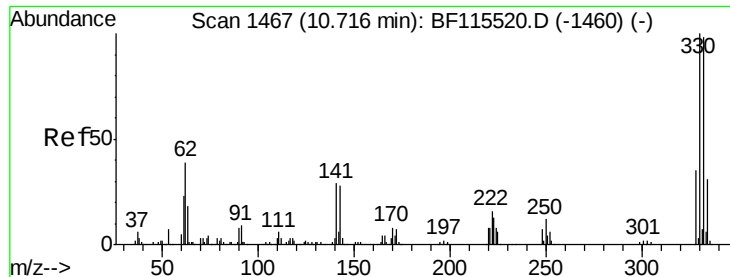
162 100.3 82.9 124.3

160 45.7 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: 76.710 ng

RT: 10.70 min Scan# 1464

Delta R.T. -0.02 min

Lab File: BF115749.D

Acq: 24 Jul 2019 14:40

Instrument :

BNA\_F

ClientSampleId :

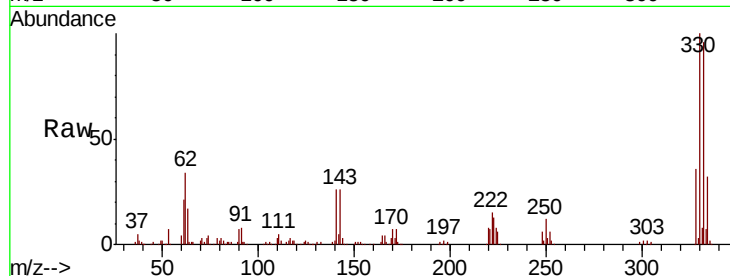
Tot Ion:330 Resp: 354477

Ion Ratio Lower Upper

330 100

332 96.4 77.4 116.2

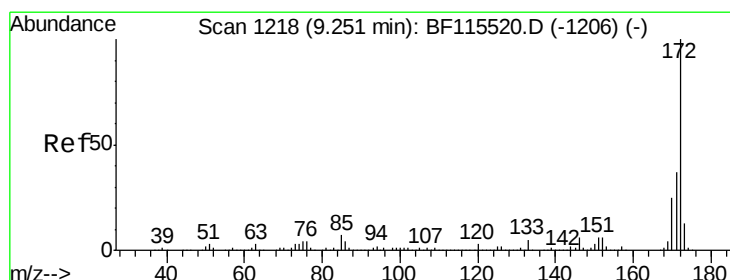
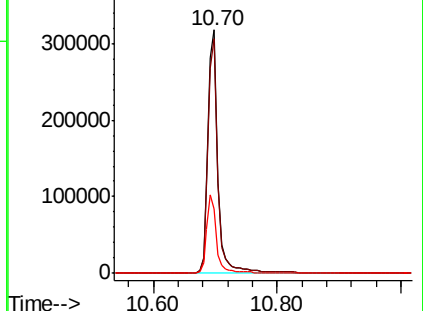
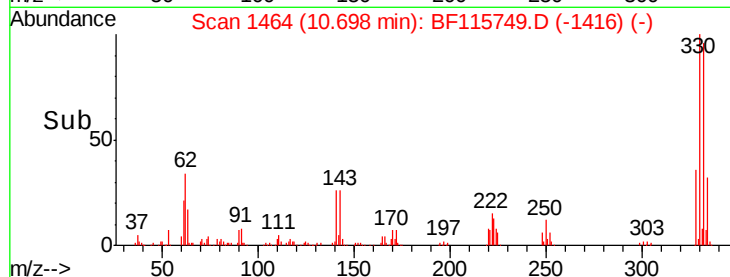
141 32.4 22.4 33.6



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: 85.962 ng

RT: 9.23 min Scan# 1214

Delta R.T. -0.02 min

Lab File: BF115749.D

Acq: 24 Jul 2019 14:40

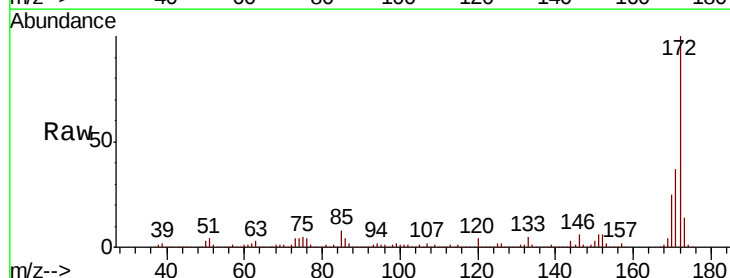
Tgt Ion:172 Resp: 1944356

Ion Ratio Lower Upper

172 100

171 37.2 30.6 46.0

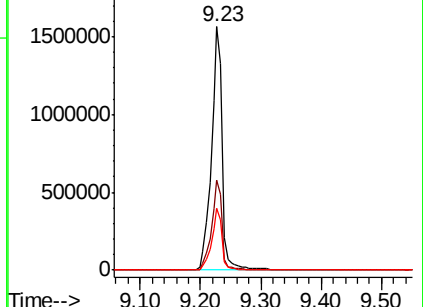
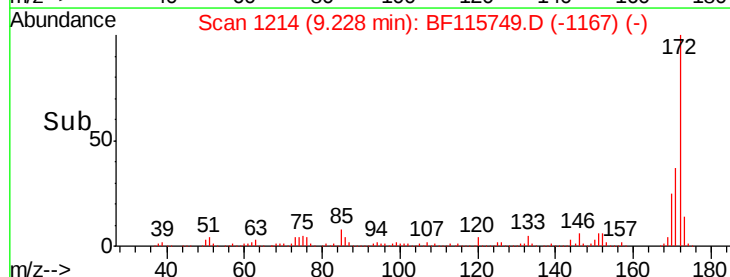
170 25.4 20.5 30.7

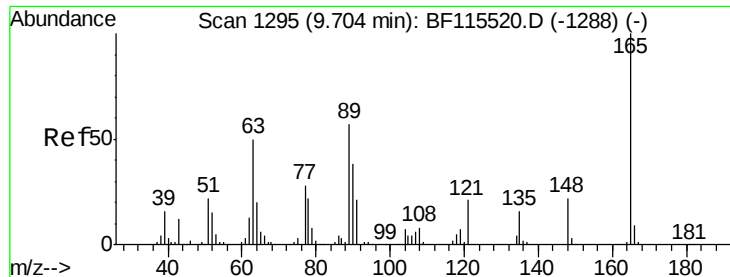


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#51

2,6-Dinitrotoluene

Concen: 7.547 ng

RT: 9.90 min Scan# 1329

Delta R.T. 0.20 min

Lab File: BF115749.D

Acq: 24 Jul 2019 14:40

Instrument :

BNA\_F

ClientSampleId :

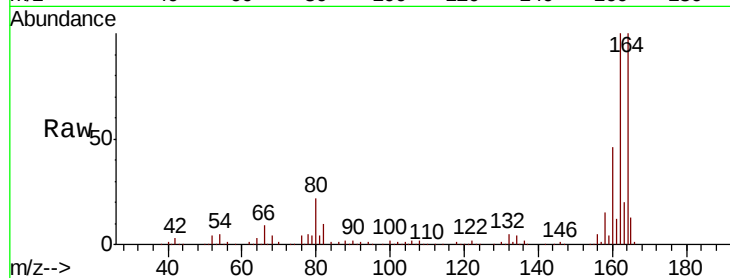
Tot Ion:165 Resp: 51088

Ion Ratio Lower Upper

165 100

63 1.0 40.6 61.0#

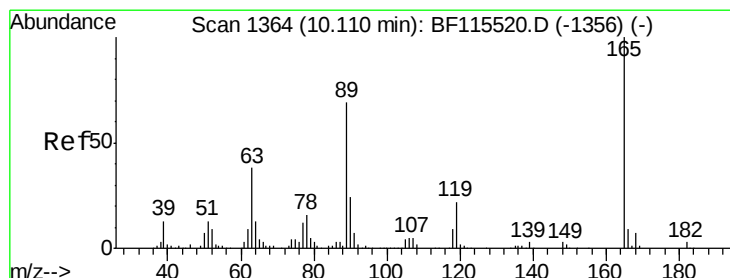
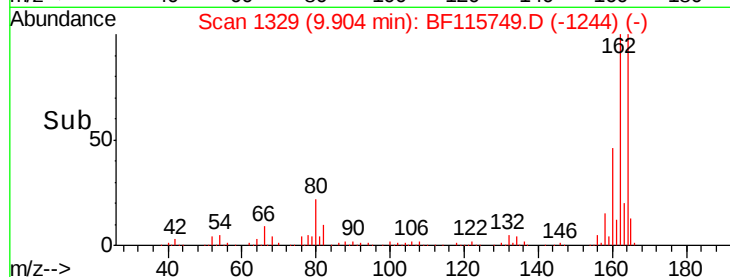
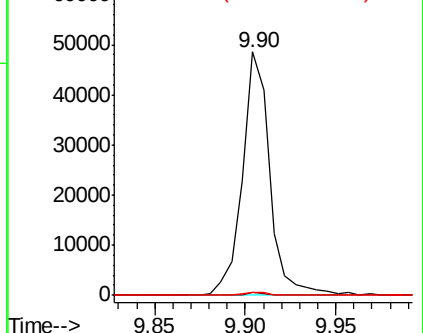
89 1.1 43.9 65.9#



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: 5.861 ng

RT: 9.90 min Scan# 1329

Delta R.T. -0.21 min

Lab File: BF115749.D

Acq: 24 Jul 2019 14:40

Tgt Ion:165 Resp: 51395

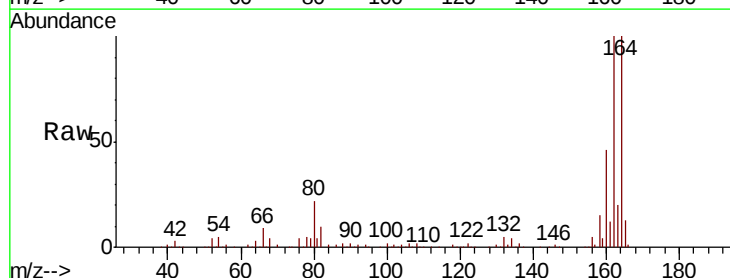
Ion Ratio Lower Upper

165 100

63 1.0 34.9 52.3#

89 1.1 57.5 86.3#

182 0.0 2.2 3.4#

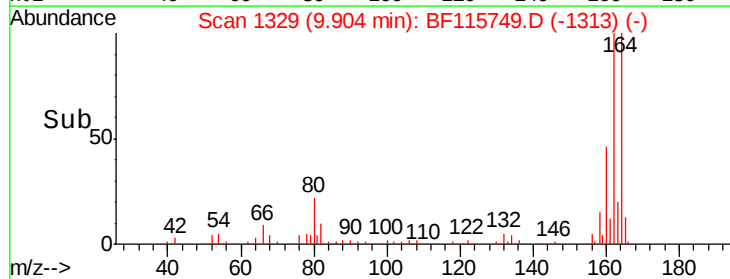
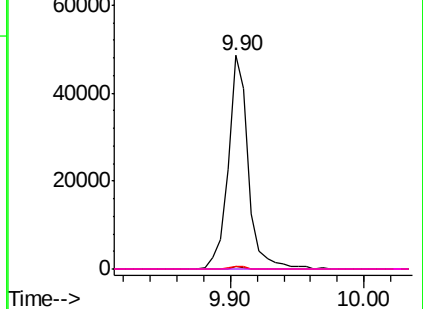


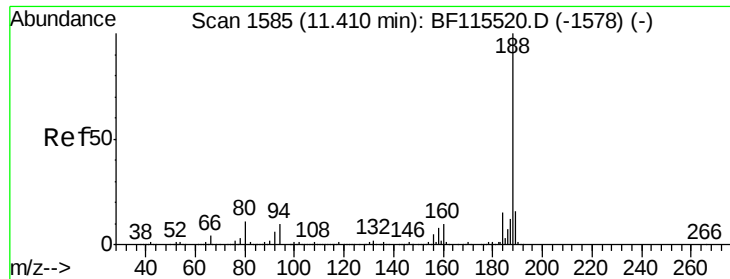
Abundance Ion 165.00 (164.70 to 165.70): E

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: 11.39 min Scan# 1582

Delta R.T. -0.02 min

Lab File: BF115749.D

Acq: 24 Jul 2019 14:40

Instrument :

BNA\_F

ClientSampleId :

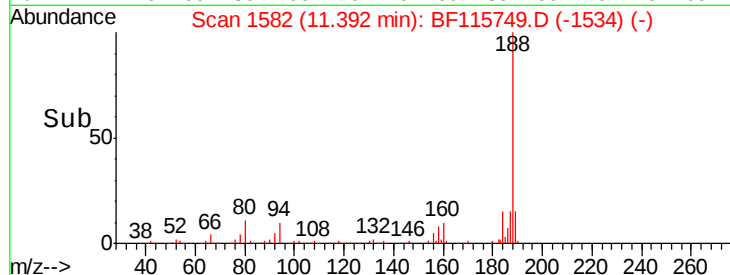
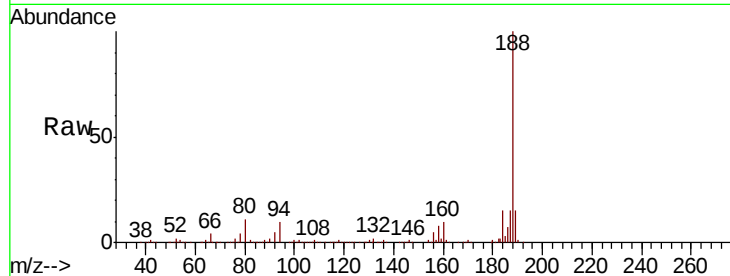
Tot Ion:188 Resp: 715477

Ion Ratio Lower Upper

188 100

94 9.9 7.8 11.6

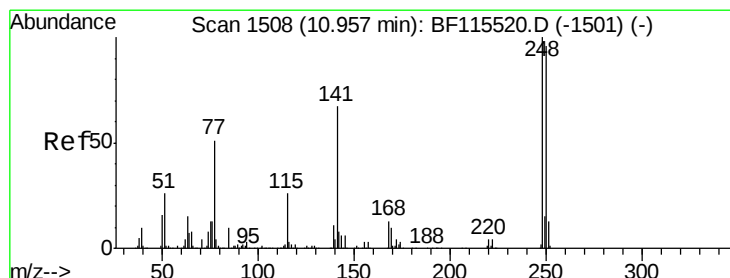
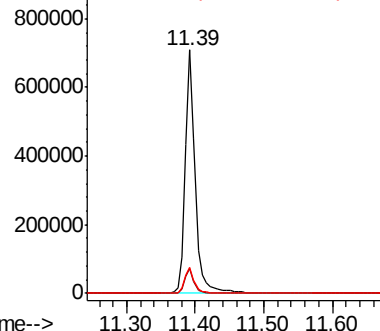
80 10.8 8.6 13.0



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: 2.605 ng

RT: 10.70 min Scan# 1464

Delta R.T. -0.26 min

Lab File: BF115749.D

Acq: 24 Jul 2019 14:40

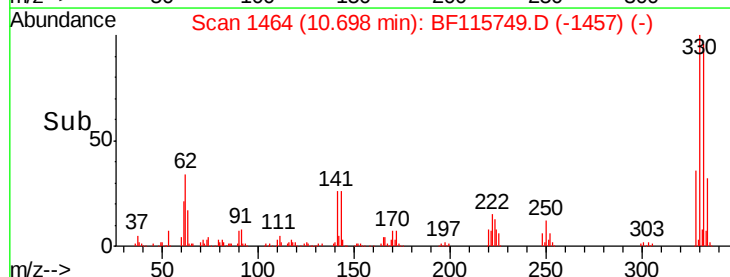
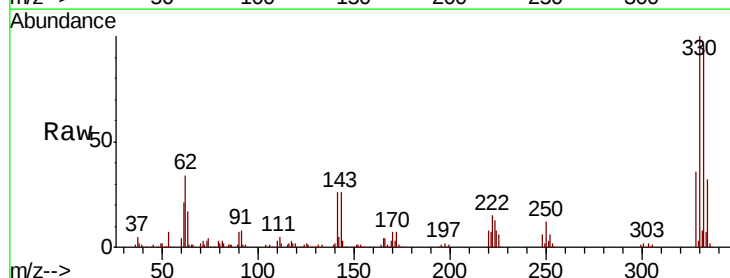
Tgt Ion:248 Resp: 21302

Ion Ratio Lower Upper

248 100

250 200.2 78.0 117.0#

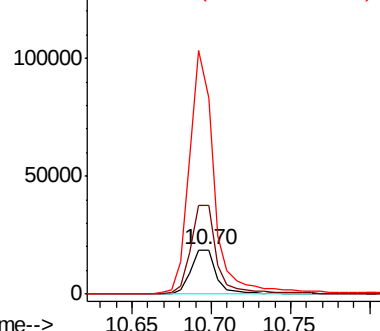
141 442.3 57.7 86.5#

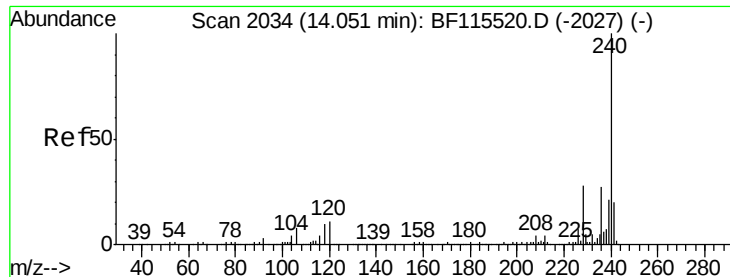


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E

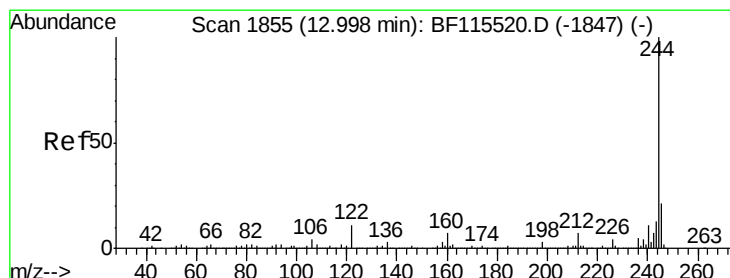
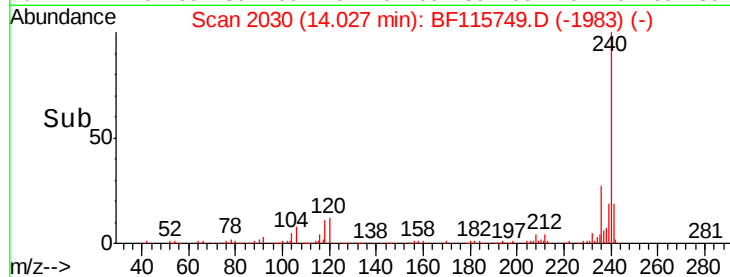
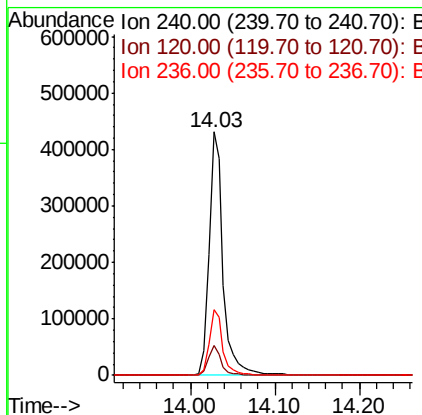
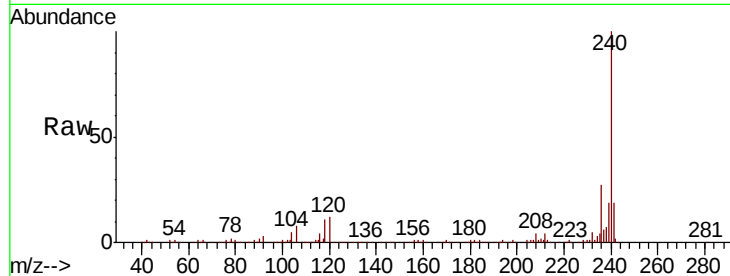




#76  
 Chrvsene-d12  
 Concen: 20.000 ng  
 RT: 14.03 min Scan# 2030  
 Delta R.T. -0.02 min  
 Lab File: BF115749.D  
 Acq: 24 Jul 2019 14:40

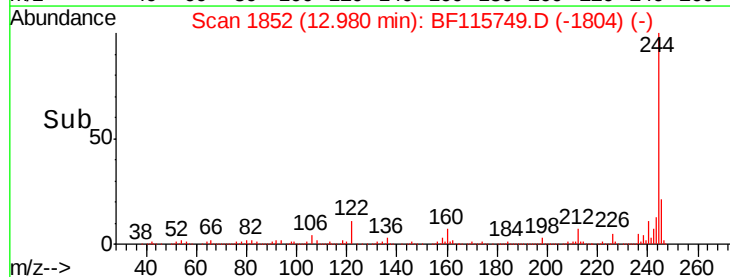
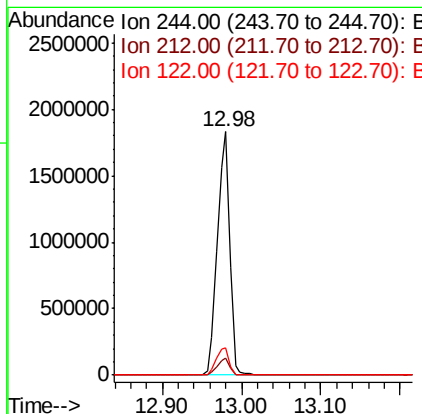
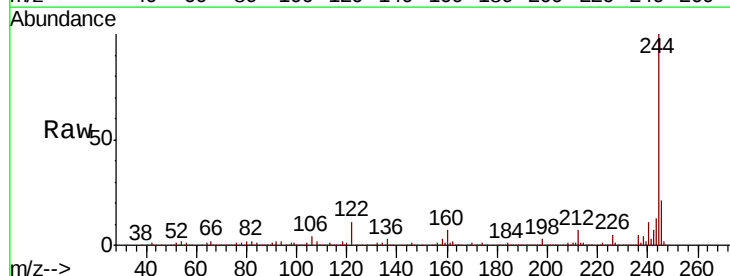
Instrument :  
 BNA\_F  
 ClientSampleId :

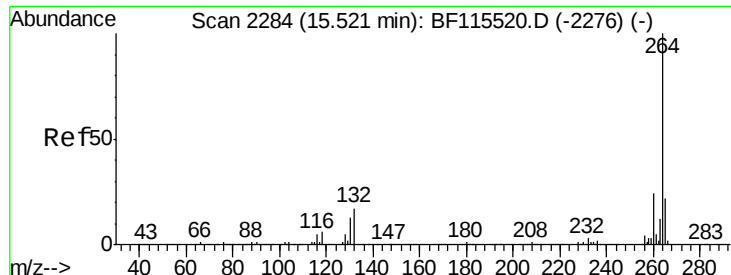
Tot Ion:240 Resp: 499637  
 Ion Ratio Lower Upper  
 240 100  
 120 12.2 8.6 13.0  
 236 26.9 21.3 31.9



#79  
 Terphenyl-d14  
 Concen: 73.237 ng  
 RT: 12.98 min Scan# 1852  
 Delta R.T. -0.02 min  
 Lab File: BF115749.D  
 Acq: 24 Jul 2019 14:40

Tgt Ion:244 Resp: 1983117  
 Ion Ratio Lower Upper  
 244 100  
 212 7.1 6.0 9.0  
 122 11.2 8.6 12.8

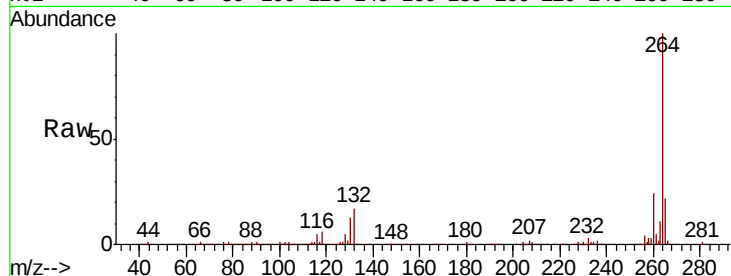




#87  
 Pervlene-d12  
 Concen: 20.000 ng  
 RT: 15.50 min Scan# 2280  
 Delta R.T. -0.02 min  
 Lab File: BF115749.D  
 Acq: 24 Jul 2019 14:40

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.8  | 19.8  | 29.8  |
| 265     | 21.7  | 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

