

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF121817\  
 Data File : BF101512.D  
 Acq On : 19 Dec 2017 6:58  
 Operator : SJ/JU  
 Sample : I6910-04  
 Misc :  
 ALS Vial : 39 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 121317-TIDO-E-U-M

Quant Time: Dec 19 07:47:41 2017  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF121417.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Dec 18 15:38:59 2017  
 Response via : Initial Calibration

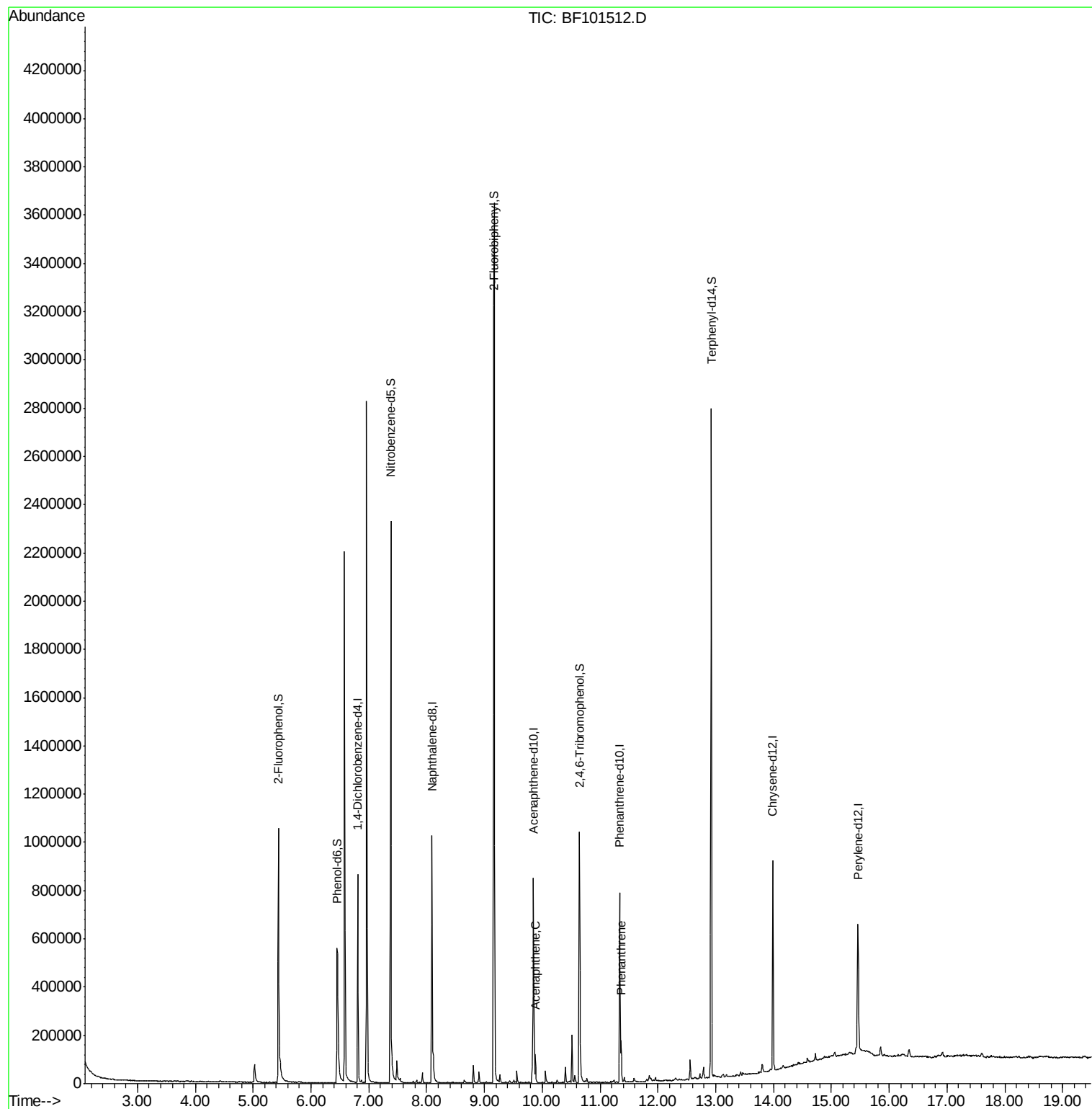
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.81  | 152  | 134834   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.09  | 136  | 491852   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10        | 9.85  | 164  | 179121   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10        | 11.34 | 188  | 276431   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12            | 13.99 | 240  | 307848   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12            | 15.46 | 264  | 283737   | 20.00  | ng    | 0.01     |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.43  | 112  | 388615   | 42.93  | ng    | 0.01     |
| 7) Phenol-d6                | 6.45  | 99   | 276461   | 24.54  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.38  | 82   | 795154   | 89.99  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 10.65 | 330  | 148660   | 86.13  | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 9.17  | 172  | 1250654  | 108.31 | ng    | 0.00     |
| 78) Terphenyl-d14           | 12.92 | 244  | 966555   | 75.69  | ng    | 0.00     |
| Target Compounds            |       |      |          |        |       |          |
| 51) Acenaphthene            | 9.88  | 154  | 23077    | 2.001  | ng    | 95       |
| 70) Phenanthrene            | 11.36 | 178  | 60716    | 3.950  | ng    | 97       |

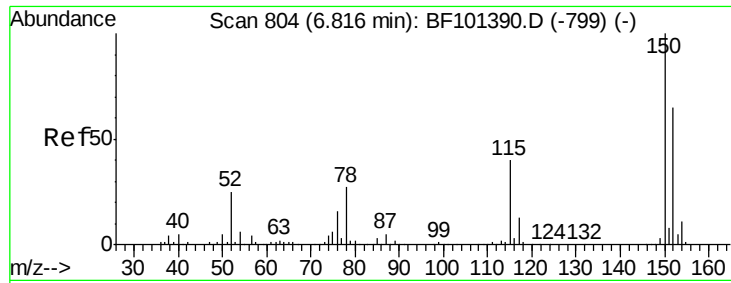
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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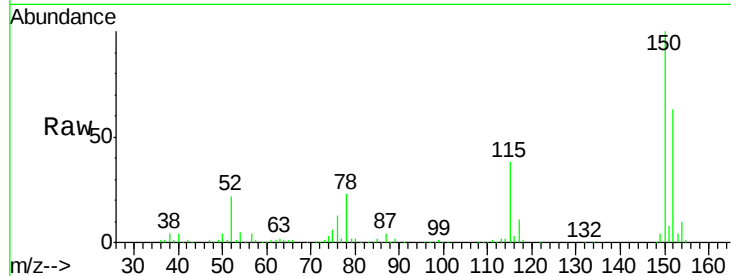


#1

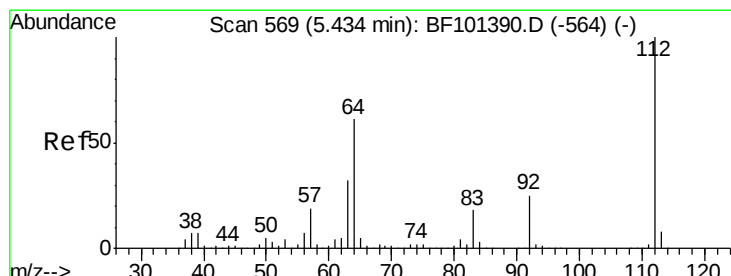
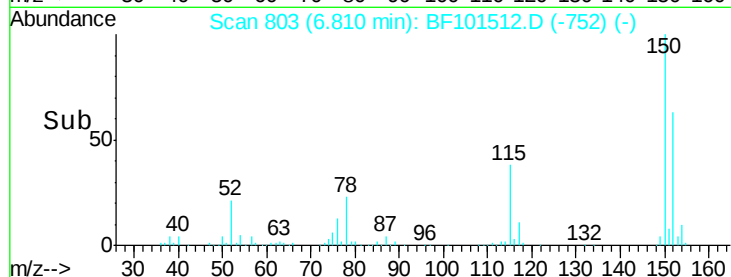
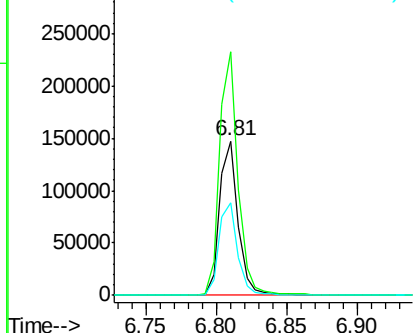
1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.81 min Scan# 803  
 Delta R.T. 0.00 min  
 Lab File: BF101512.D  
 Acq: 19 Dec 2017 6:58

Instrument :  
 BNA\_F  
 ClientSampleId :  
 121317-TIDO-E-U-M

Tgt Ion:152 Resp: 134834  
 Ion Ratio Lower Upper  
 152 100  
 150 157.7 124.6 186.8  
 115 60.0 50.1 75.1



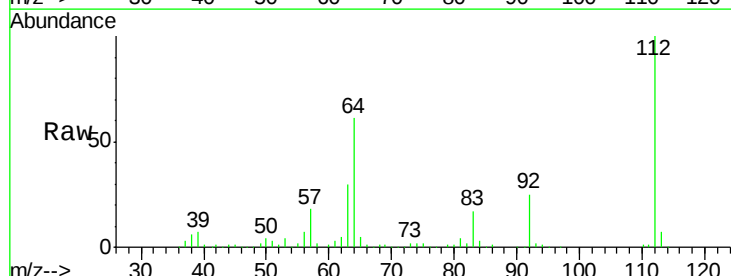
Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E



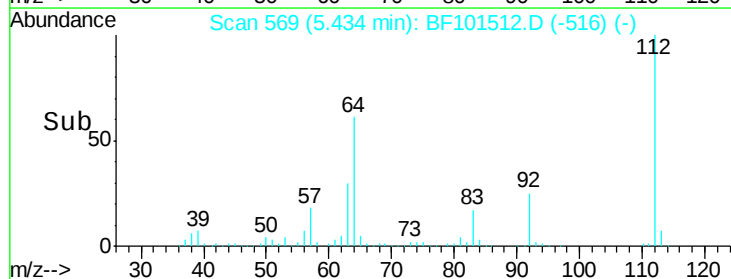
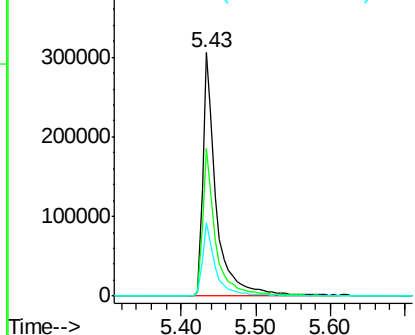
#5

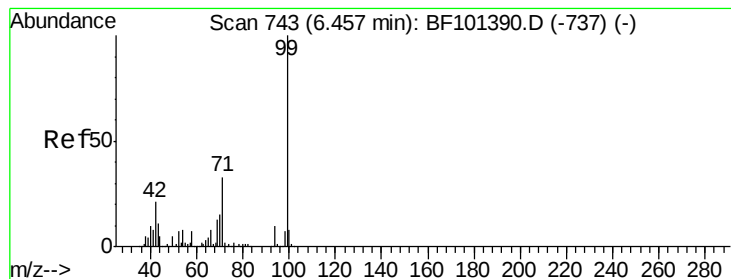
2-Fluorophenol  
 Concen: 42.932 ng  
 RT: 5.43 min Scan# 569  
 Delta R.T. 0.01 min  
 Lab File: BF101512.D  
 Acq: 19 Dec 2017 6:58

Tgt Ion:112 Resp: 388615  
 Ion Ratio Lower Upper  
 112 100  
 64 60.5 47.9 71.9  
 63 30.4 23.7 35.5



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: 24.541 ng

RT: 6.45 min Scan# 742

Delta R.T. 0.00 min

Lab File: BF101512.D

Acq: 19 Dec 2017 6:58

Instrument :

BNA\_F

ClientSampleId :

121317-TIDO-E-U-M

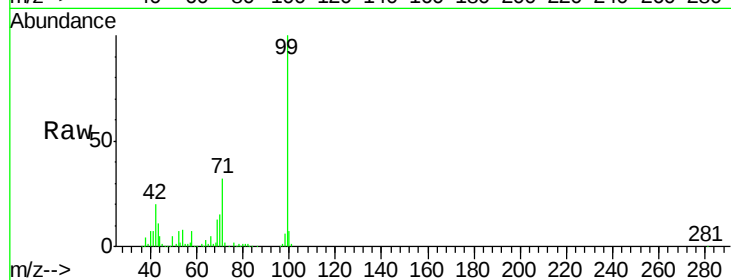
Tgt Ion: 99 Resp: 276461

Ion Ratio Lower Upper

99 100

42 20.3 14.5 21.7

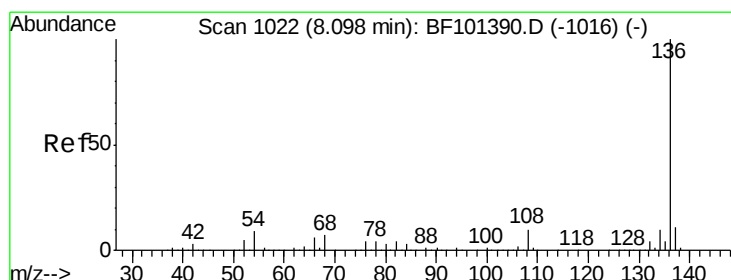
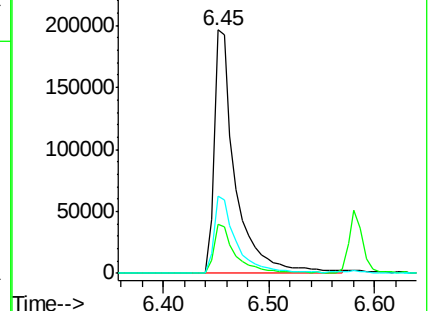
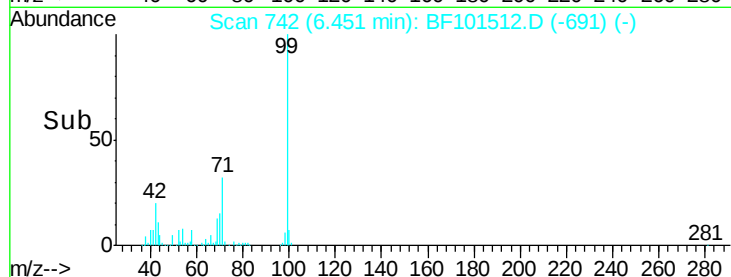
71 31.9 25.4 38.0



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



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.09 min Scan# 1021

Delta R.T. 0.00 min

Lab File: BF101512.D

Acq: 19 Dec 2017 6:58

Tgt Ion: 136 Resp: 491852

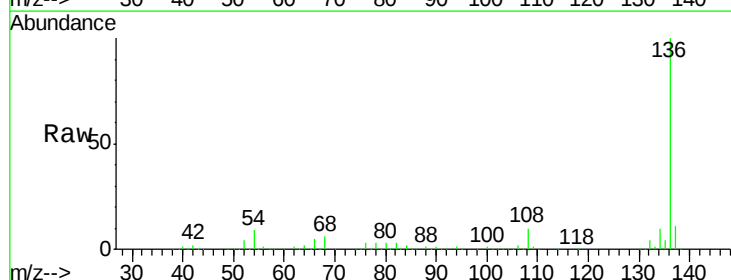
Ion Ratio Lower Upper

136 100

137 10.7 8.9 13.3

54 8.7 6.6 9.8

68 6.5 5.0 7.4

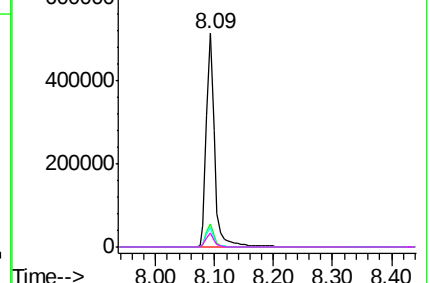
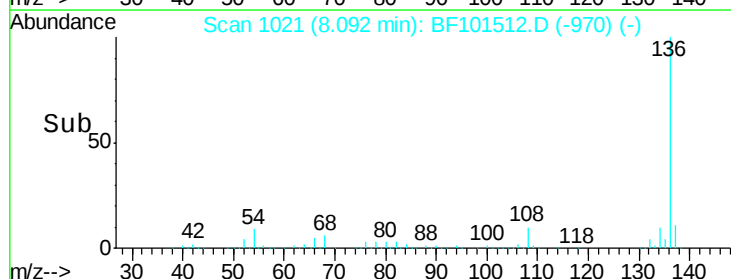


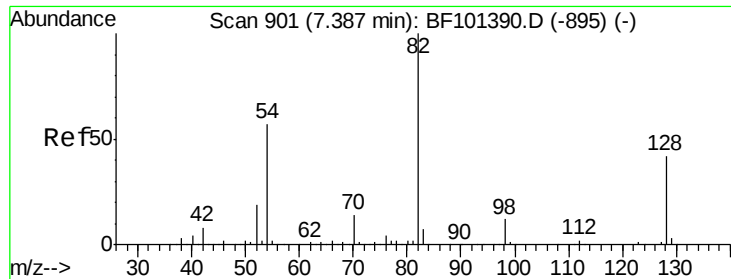
Abundance Ion 136.00 (135.70 to 136.70): E

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

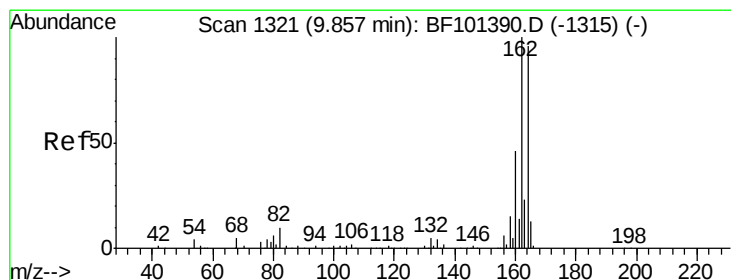
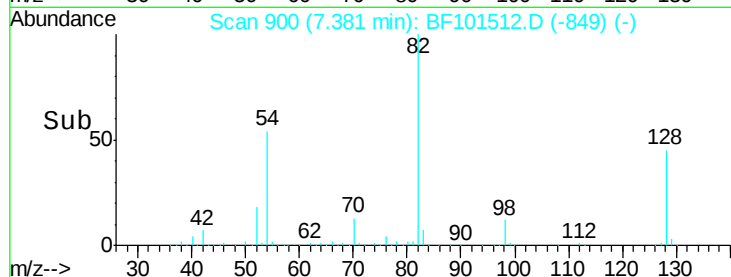
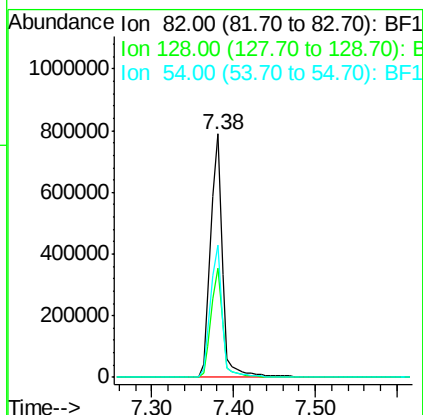
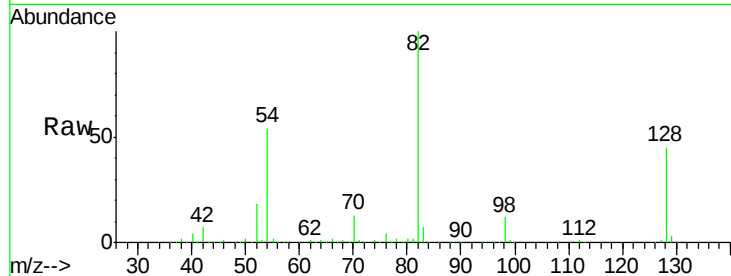




#23  
 Nitrobenzene-d5  
 Concen: 89.992 ng  
 RT: 7.38 min Scan# 900  
 Delta R.T. 0.00 min  
 Lab File: BF101512.D  
 Acq: 19 Dec 2017 6:58

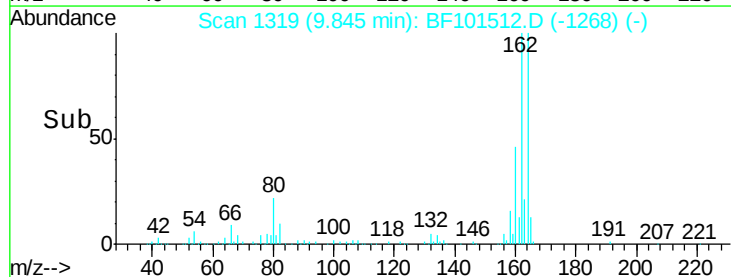
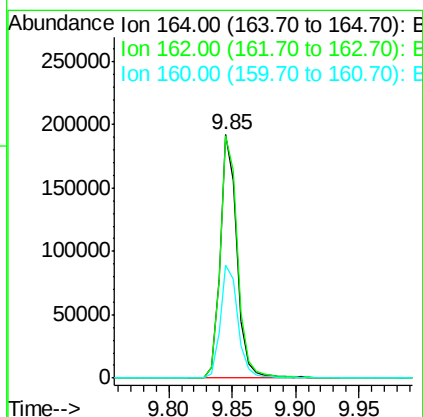
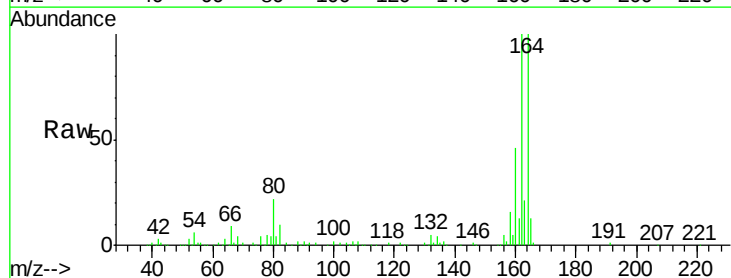
Instrument :  
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 121317-TIDO-E-U-M

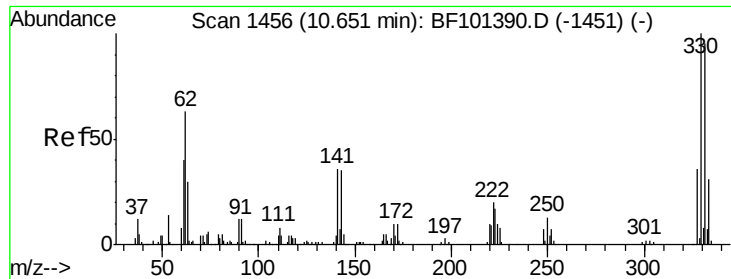
Tgt Ion: 82 Resp: 795154  
 Ion Ratio Lower Upper  
 82 100  
 128 44.8 36.1 54.1  
 54 54.1 41.4 62.2



#38  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.85 min Scan# 1319  
 Delta R.T. 0.00 min  
 Lab File: BF101512.D  
 Acq: 19 Dec 2017 6:58

Tgt Ion: 164 Resp: 179121  
 Ion Ratio Lower Upper  
 164 100  
 162 99.6 86.1 129.1  
 160 46.4 38.3 57.5

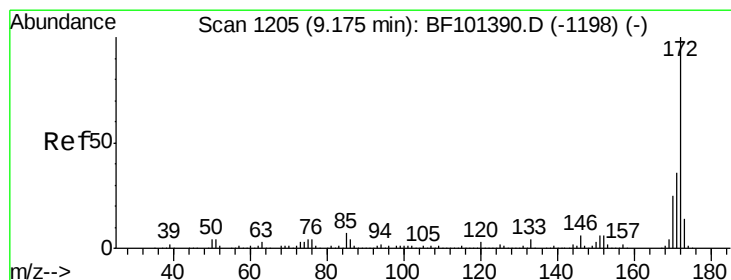
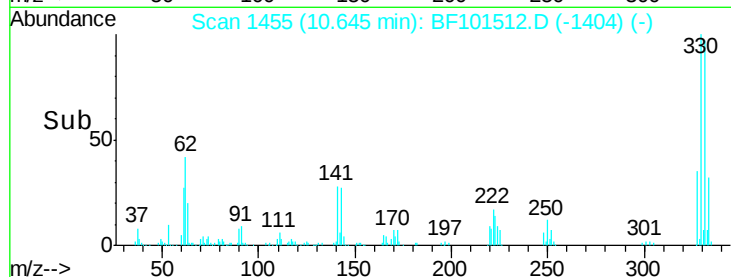
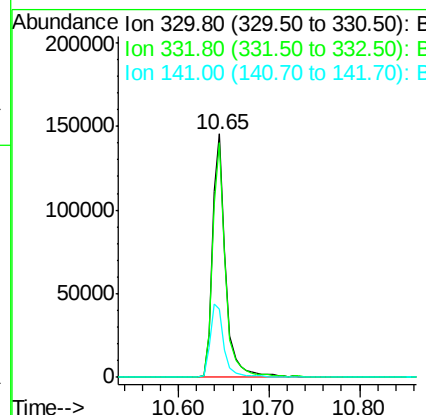
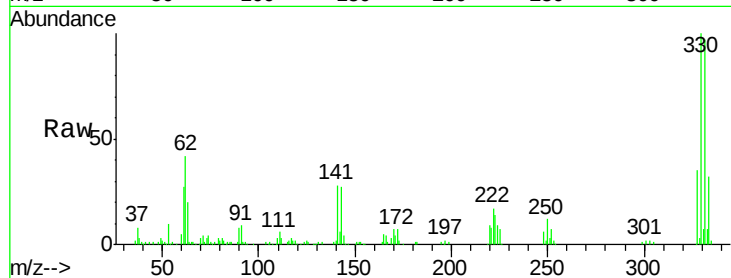




#41  
 2,4,6-Tribromophenol  
 Concen: 86.131 ng  
 RT: 10.65 min Scan# 1455  
 Delta R.T. 0.00 min  
 Lab File: BF101512.D  
 Acq: 19 Dec 2017 6:58

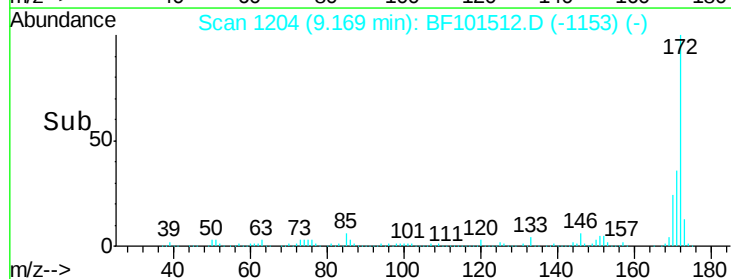
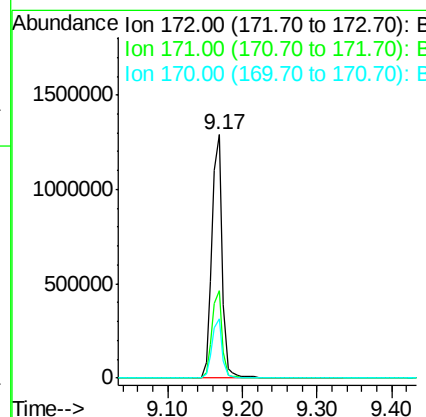
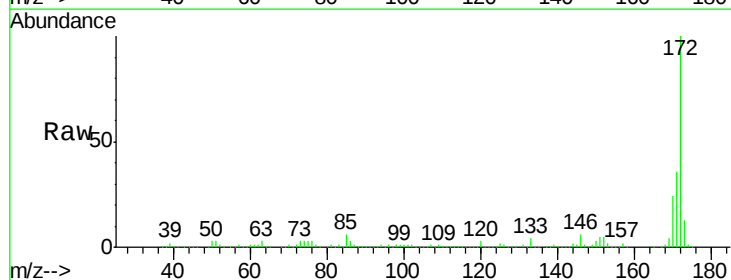
Instrument :  
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 ClientSampleId :  
 121317-TIDO-E-U-M

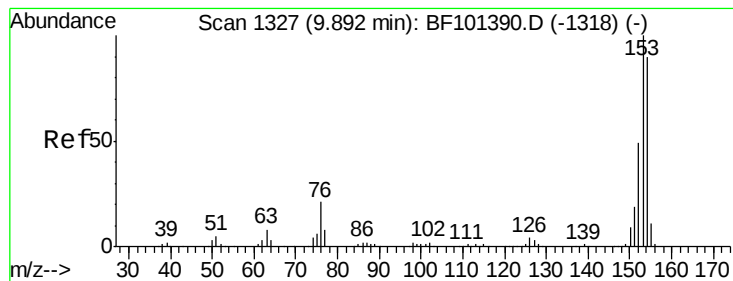
Tgt Ion: 330 Resp: 148660  
 Ion Ratio Lower Upper  
 330 100  
 332 95.6 77.0 115.6  
 141 31.9 29.9 44.9



#44  
 2-Fluorobiphenyl  
 Concen: 108.310 ng  
 RT: 9.17 min Scan# 1204  
 Delta R.T. 0.00 min  
 Lab File: BF101512.D  
 Acq: 19 Dec 2017 6:58

Tgt Ion: 172 Resp: 1250654  
 Ion Ratio Lower Upper  
 172 100  
 171 35.7 29.7 44.5  
 170 24.4 19.6 29.4





#51

Acenaphthene

Concen: 2.001 ng

RT: 9.88 min Scan# 1325

Delta R.T. 0.00 min

Lab File: BF101512.D

Acq: 19 Dec 2017 6:58

Instrument :

BNA\_F

ClientSampleId :

121317-TIDO-E-U-M

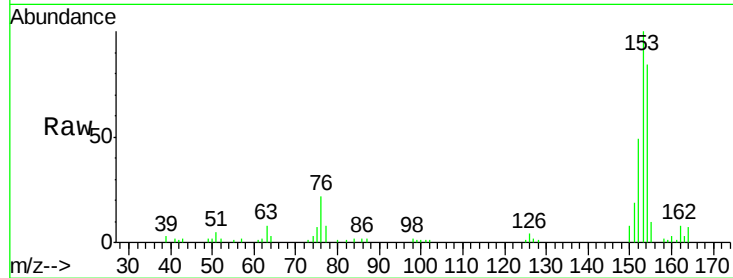
Tgt Ion:154 Resp: 23077

Ion Ratio Lower Upper

154 100

153 119.2 91.2 136.8

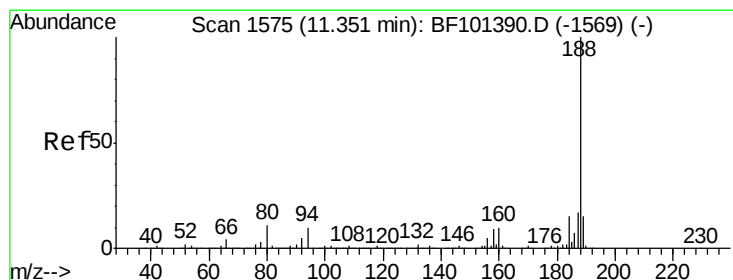
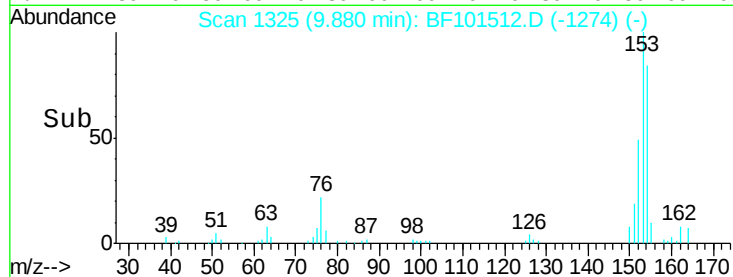
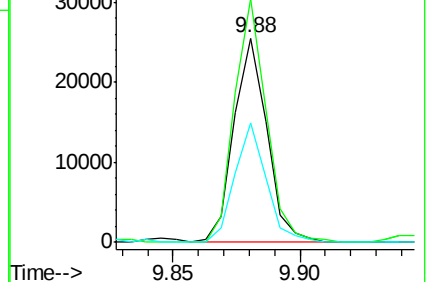
152 58.3 43.8 65.8



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.34 min Scan# 1573

Delta R.T. 0.00 min

Lab File: BF101512.D

Acq: 19 Dec 2017 6:58

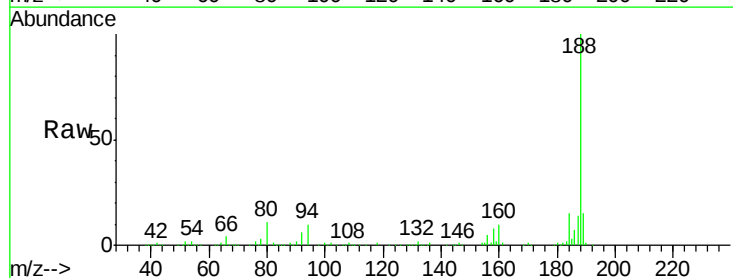
Tgt Ion:188 Resp: 276431

Ion Ratio Lower Upper

188 100

94 9.7 8.5 12.7

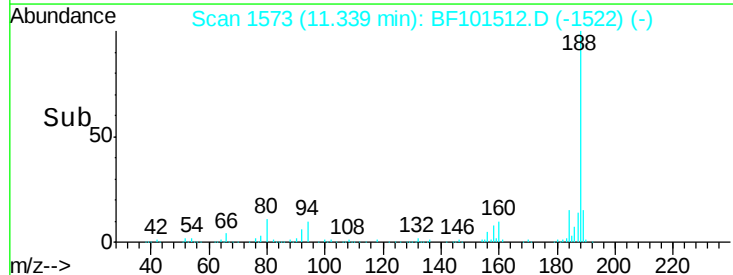
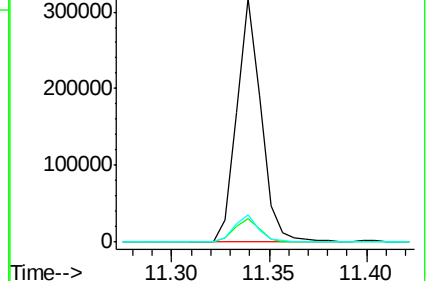
80 11.2 9.2 13.8

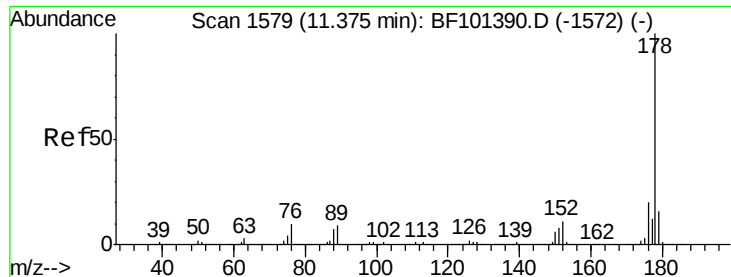


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1





#70

Phenanthrene

Concen: 3.950 ng

RT: 11.36 min Scan# 1577

Delta R.T. 0.00 min

Lab File: BF101512.D

Acq: 19 Dec 2017 6:58

Instrument :

BNA\_F

ClientSampleId :

121317-TIDO-E-U-M

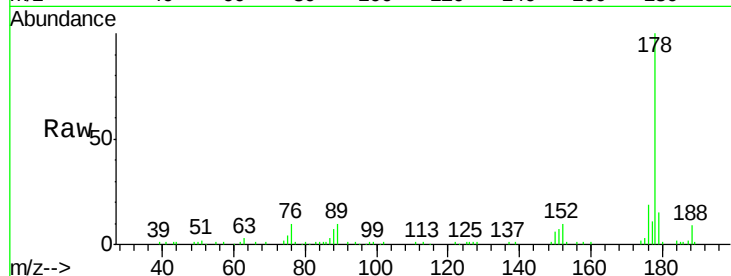
Tgt Ion:178 Resp: 60716

Ion Ratio Lower Upper

178 100

176 18.7 15.8 23.8

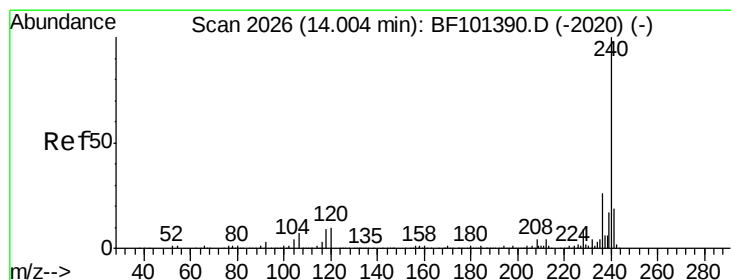
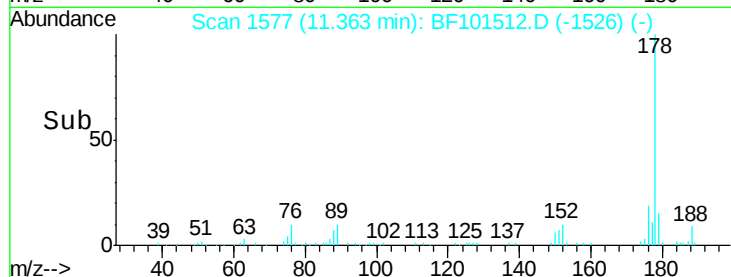
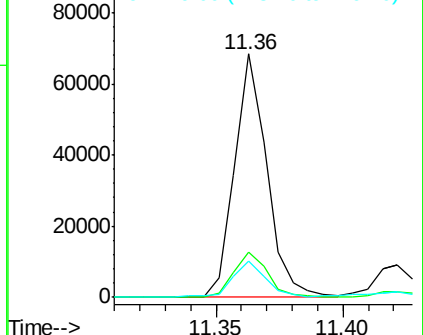
179 14.9 13.0 19.6



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

Chrysene-d12

Concen: 20.000 ng

RT: 13.99 min Scan# 2023

Delta R.T. 0.00 min

Lab File: BF101512.D

Acq: 19 Dec 2017 6:58

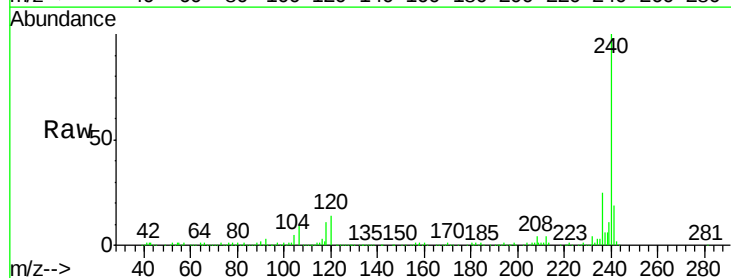
Tgt Ion:240 Resp: 307848

Ion Ratio Lower Upper

240 100

120 13.6 9.5 14.3

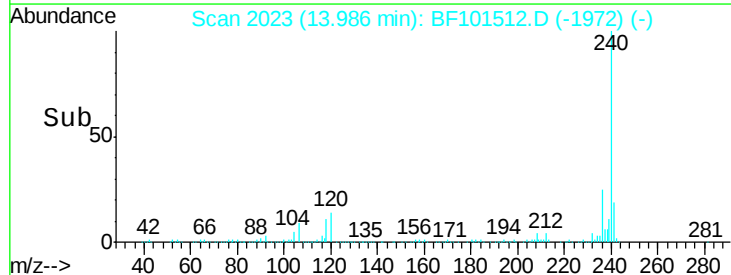
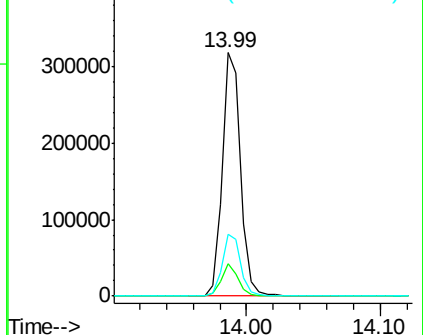
236 25.4 20.7 31.1

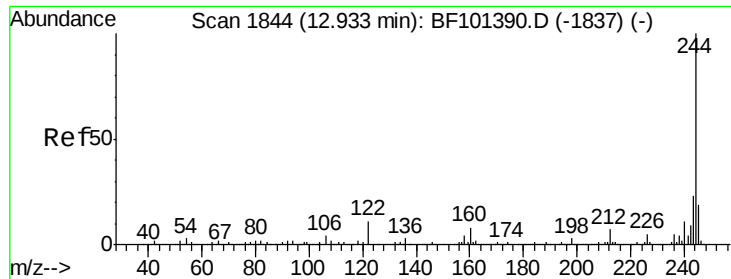


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Terphenyl-d14

Concen: 75.691 ng

RT: 12.92 min Scan# 1842

Delta R.T. 0.00 min

Lab File: BF101512.D

Acq: 19 Dec 2017 6:58

Instrument :

BNA\_F

ClientSampleId :

121317-TIDO-E-U-M

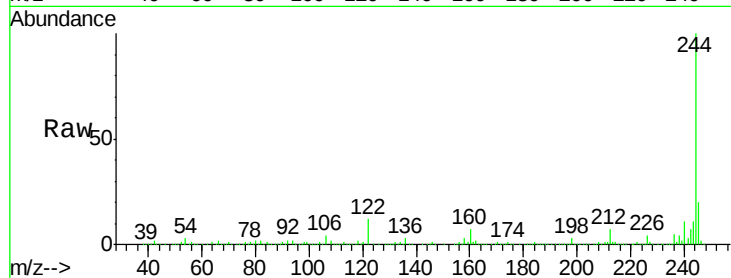
Tgt Ion:244 Resp: 966555

Ion Ratio Lower Upper

244 100

212 6.8 5.4 8.0

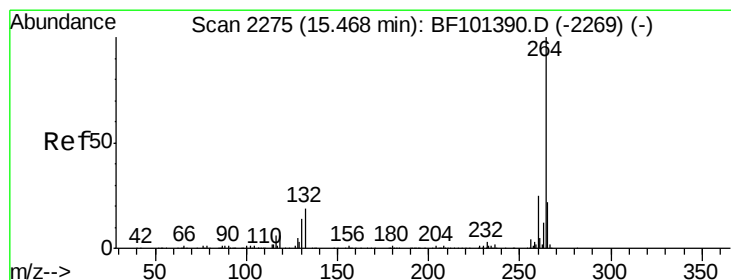
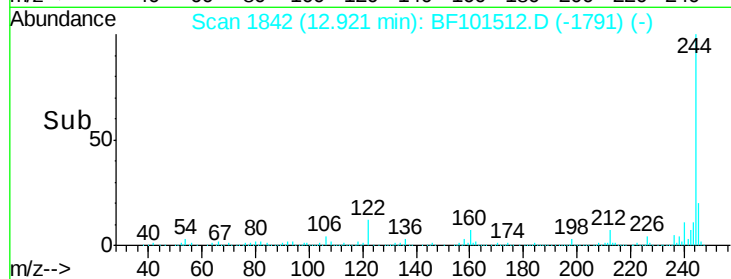
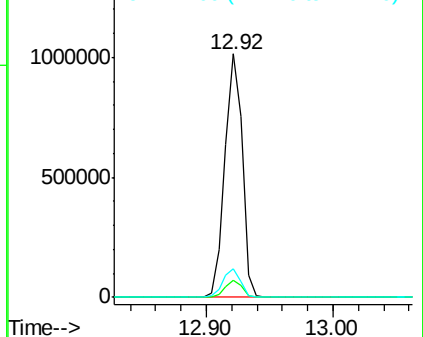
122 11.9 11.0 16.4



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



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.46 min Scan# 2274

Delta R.T. 0.01 min

Lab File: BF101512.D

Acq: 19 Dec 2017 6:58

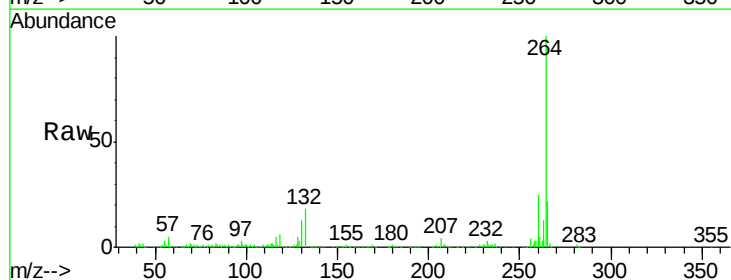
Tgt Ion:264 Resp: 283737

Ion Ratio Lower Upper

264 100

260 24.6 19.2 28.8

265 21.6 17.5 26.3



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

