

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF121915\  
 Data File : BF083927.D  
 Acq On : 18 Dec 2015 21:49  
 Operator : UM/SJ  
 Sample : G4838-01DL 10X  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 WC121515-LIQUID-POPHDL

Quant Time: Dec 19 04:18:45 2015  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF121815.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Dec 18 14:23:22 2015  
 Response via : Initial Calibration

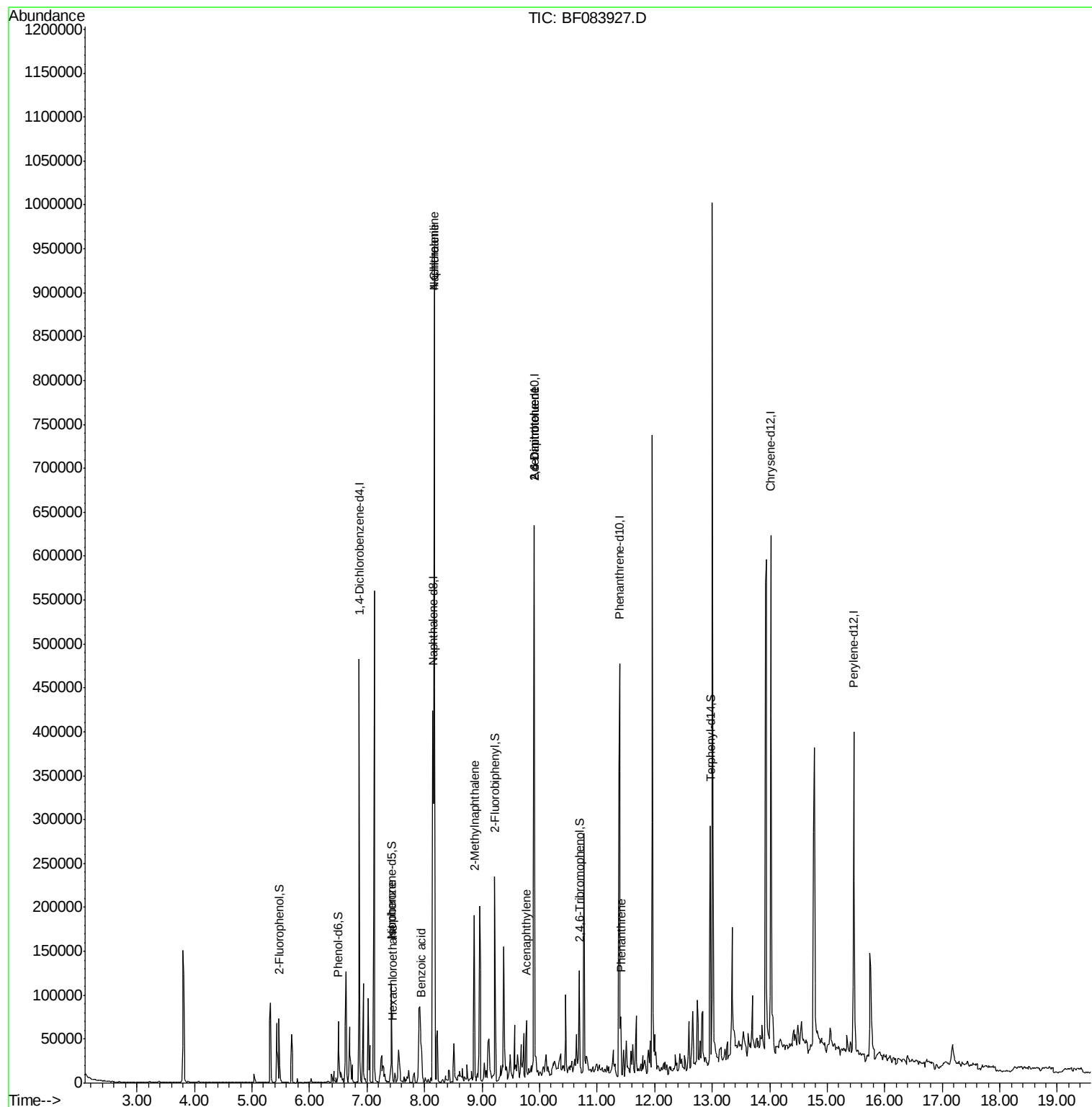
| Internal Standards          | R.T.  | QIon | Response | Conc      | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-----------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.86  | 152  | 72141    | 20.00     | ng    | -0.01    |
| 21) Naphthalene-d8          | 8.14  | 136  | 237338   | 20.00     | ng    | -0.01    |
| 38) Acenaphthene-d10        | 9.90  | 164  | 126578   | 20.00     | ng    | -0.01    |
| 63) Phenanthrene-d10        | 11.39 | 188  | 224717   | 20.00     | ng    | 0.00     |
| 75) Chrysene-d12            | 14.02 | 240  | 230090   | 20.00     | ng    | -0.01    |
| 86) Perylene-d12            | 15.46 | 264  | 163556   | 20.00     | ng    | -0.01    |
| System Monitoring Compounds |       |      |          |           |       |          |
| 5) 2-Fluorophenol           | 5.47  | 112  | 22441    | 4.87      | ng    | -0.01    |
| 7) Phenol-d6                | 6.50  | 99   | 19323    | 3.42      | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 7.42  | 82   | 33419    | 8.04      | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol    | 10.69 | 330  | 16413    | 11.77     | ng    | -0.01    |
| 44) 2-Fluorobiphenyl        | 9.22  | 172  | 77093    | 6.80      | ng    | -0.02    |
| 78) Terphenyl-d14           | 12.97 | 244  | 81017    | 2.12      | ng    | -0.01    |
| Target Compounds            |       |      |          |           |       |          |
| 18) Hexachloroethane        | 7.44  | 117  | 7478     | 3.38      | ng    | # 4      |
| 25) Isophorone              | 7.42  | 82   | 28860    | 3.69      | ng    | # 66     |
| 31) Naphthalene             | 8.17  | 128  | 508835   | 42.43     | ng    | 99       |
| 32) Benzoic acid            | 7.94  | 122  | 4898     | 6.23      | ng    | # 34     |
| 33) 4-Chloroaniline         | 8.17  | 127  | 68033    | 12.63     | ng    | # 31     |
| 36) 4-Chloro-3-methylphenol | 8.70  | 107  | 212      | Below Cal | #     | 20       |
| 37) 2-Methylnaphthalene     | 8.86  | 142  | 50572    | 6.13      | ng    | 99       |
| 45) 1,1'-Biphenyl           | 9.32  | 154  | 5816     | Below Cal |       | 98       |
| 46) 2-Chloronaphthalene     | 9.40  | 162  | 283      | Below Cal | #     | 33       |
| 48) Acenaphthylene          | 9.77  | 152  | 30887    | 2.09      | ng    | 98       |
| 50) 2,6-Dinitrotoluene      | 9.90  | 165  | 16646    | 7.18      | ng    | # 38     |
| 56) 2,4-Dinitrotoluene      | 9.90  | 165  | 16643    | 5.60      | ng    | # 22     |
| 57) Fluorene                | 10.45 | 166  | 12524    | Below Cal |       | 99       |
| 70) Phenanthrene            | 11.41 | 178  | 33143    | 2.44      | ng    | 98       |
| 77) Pyrene                  | 12.83 | 202  | 32999    | Below Cal |       | 97       |

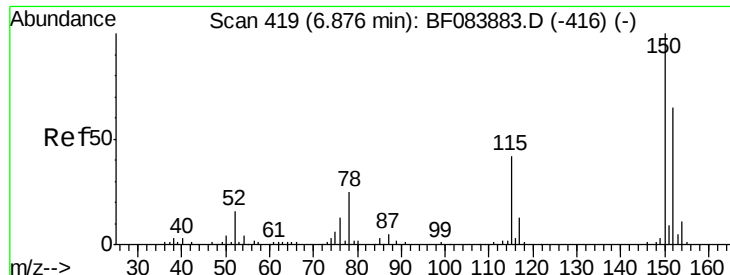
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Dec 18 14:23:22 2015  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.86 min Scan# 418

Delta R.T. -0.01 min

Lab File: BF083927.D

Acq: 18 Dec 2015 21:49

Instrument :

BNA\_F

ClientSampleId :

WC121515-LIQUID-POPHDL

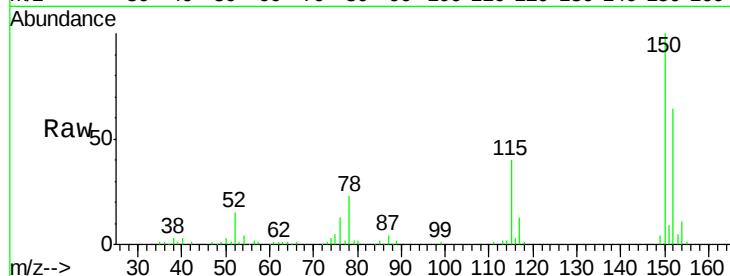
Tgt Ion:152 Resp: 72141

Ion Ratio Lower Upper

152 100

150 155.7 123.0 184.4

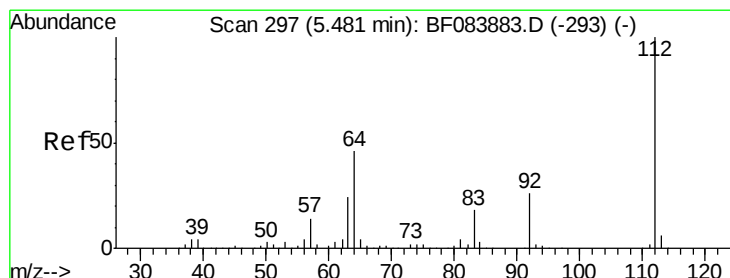
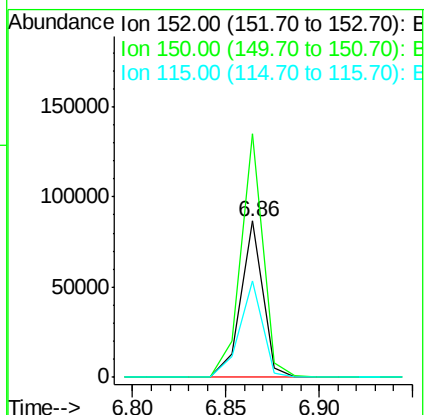
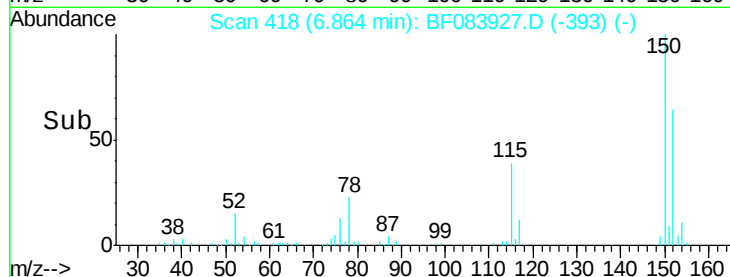
115 61.7 51.4 77.2



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: 4.87 ng

RT: 5.47 min Scan# 296

Delta R.T. -0.01 min

Lab File: BF083927.D

Acq: 18 Dec 2015 21:49

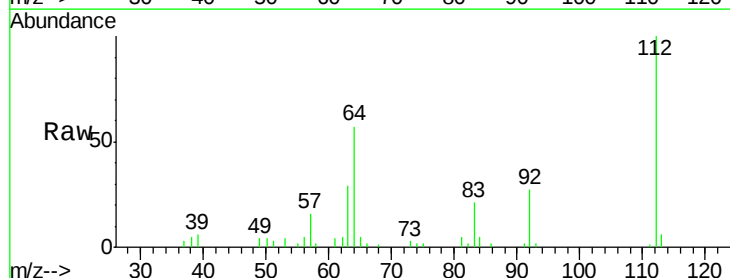
Tgt Ion:112 Resp: 22441

Ion Ratio Lower Upper

112 100

64 57.2 36.6 55.0#

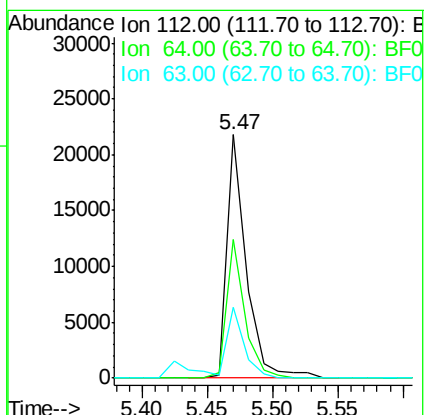
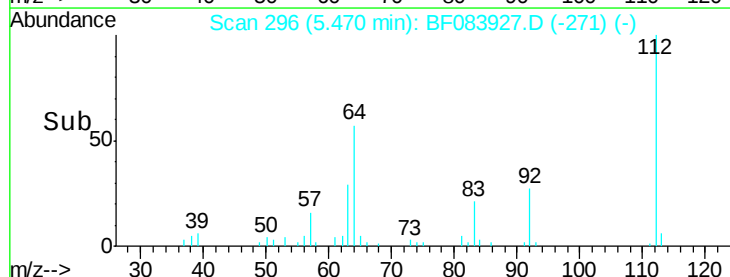
63 29.0 19.4 29.0

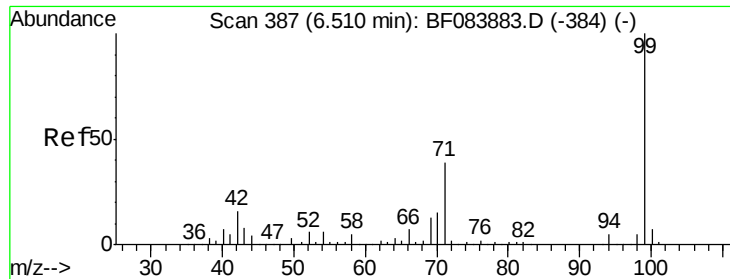


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 3.42 ng

RT: 6.50 min Scan# 386

Delta R.T. -0.01 min

Lab File: BF083927.D

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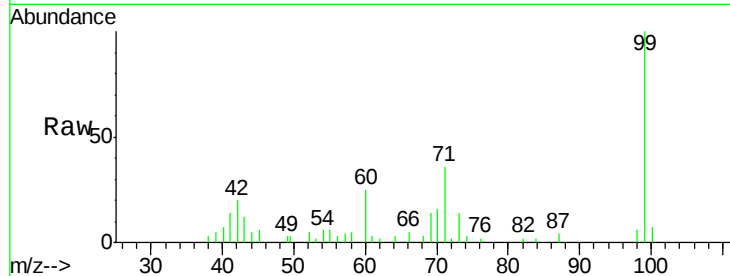
Tgt Ion: 99 Resp: 19323

Ion Ratio Lower Upper

99 100

42 19.9 12.8 19.2#

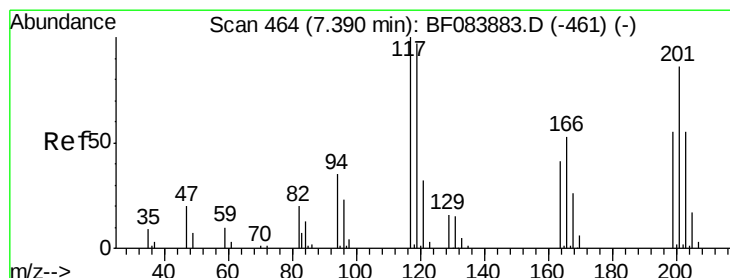
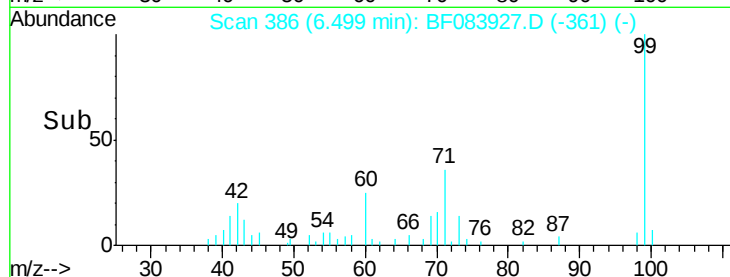
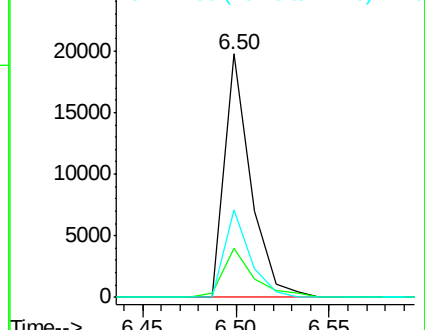
71 36.1 30.9 46.3



Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#18

Hexachloroethane

Concen: 3.38 ng

RT: 7.44 min Scan# 468

Delta R.T. 0.05 min

Lab File: BF083927.D

Acq: 18 Dec 2015 21:49

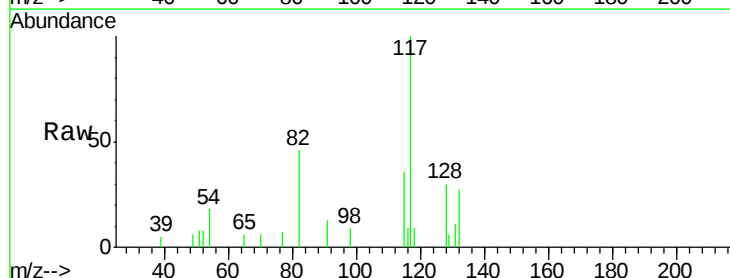
Tgt Ion: 117 Resp: 7478

Ion Ratio Lower Upper

117 100

119 0.0 77.4 116.0#

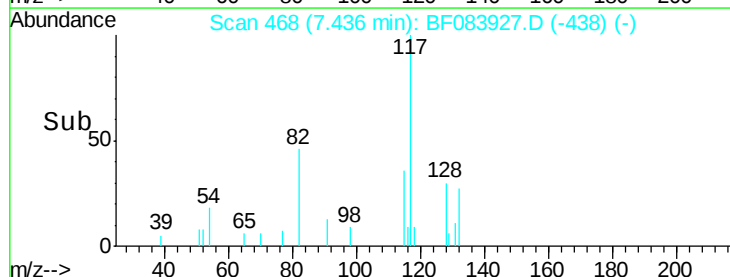
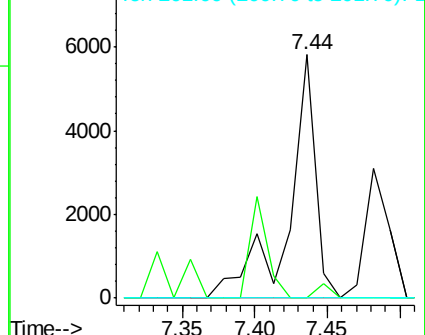
201 0.0 68.6 103.0#

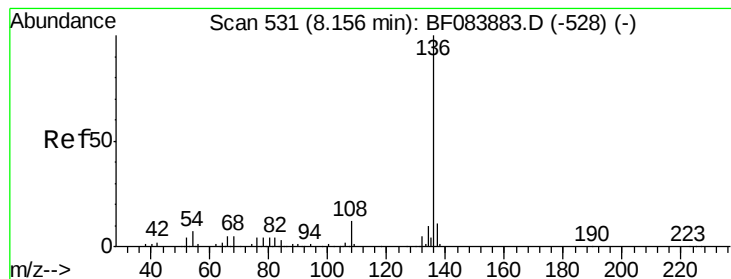


Abundance Ion 117.00 (116.70 to 117.70): E

Ion 119.00 (118.70 to 119.70): E

Ion 201.00 (200.70 to 201.70): E





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.14 min Scan# 530

Delta R.T. -0.01 min

Lab File: BF083927.D

Acq: 18 Dec 2015 21:49

Instrument :

BNA\_F

ClientSampleId :

WC121515-LIQUID-POPHDL

Tgt Ion: 136 Resp: 237338

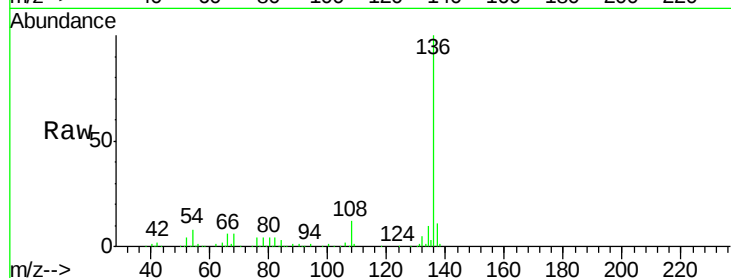
Ion Ratio Lower Upper

136 100

137 10.9 8.7 13.1

54 7.9 5.8 8.8

68 5.6 4.2 6.2

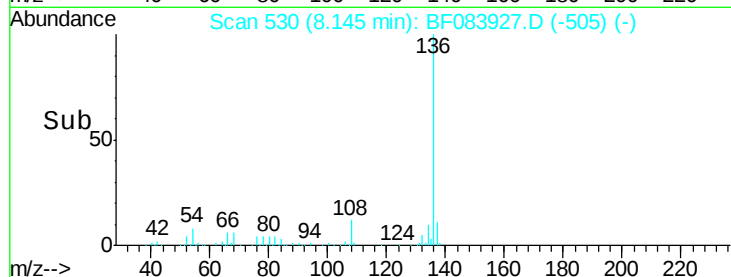


Abundance Ion 136.00 (135.70 to 136.70): E

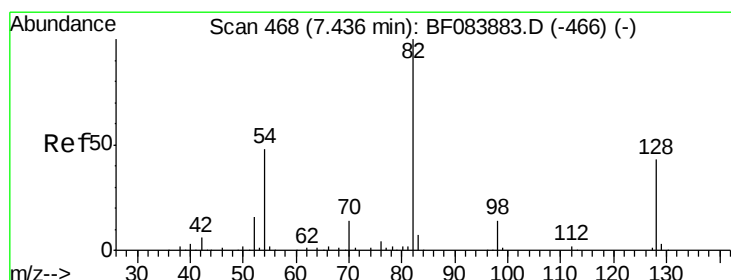
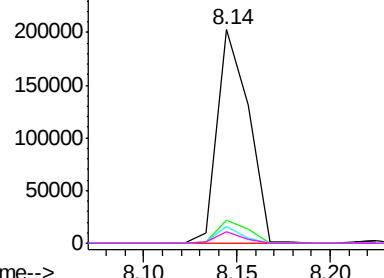
Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0



Time-->



#23

Nitrobenzene-d5

Concen: 8.04 ng

RT: 7.42 min Scan# 467

Delta R.T. -0.01 min

Lab File: BF083927.D

Acq: 18 Dec 2015 21:49

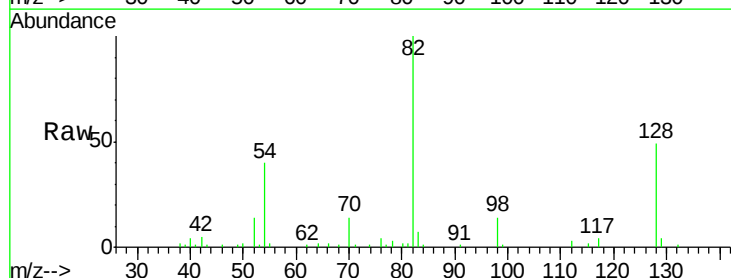
Tgt Ion: 82 Resp: 33419

Ion Ratio Lower Upper

82 100

128 49.4 34.6 51.8

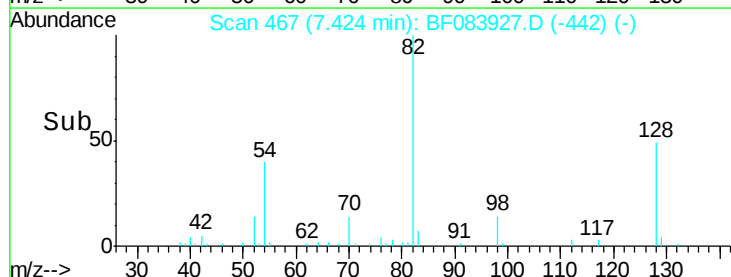
54 39.7 38.4 57.6



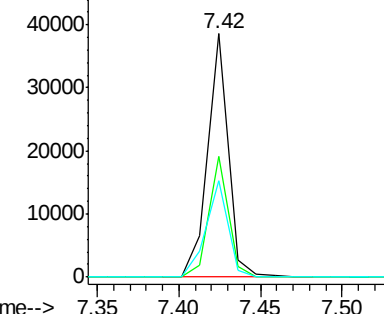
Abundance Ion 82.00 (81.70 to 82.70): BF0

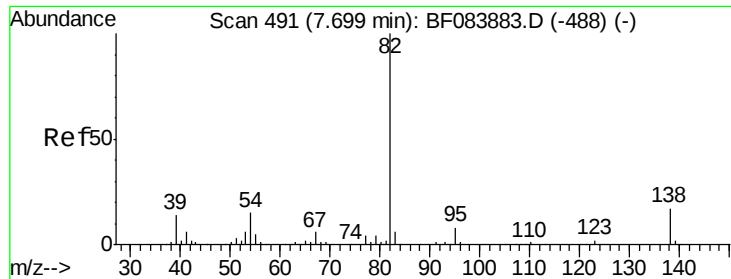
Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0



Time-->





#25

Isophorone

Concen: 3.69 ng

RT: 7.42 min Scan# 467

Delta R.T. -0.27 min

Lab File: BF083927.D

Acq: 18 Dec 2015 21:49

Instrument :

BNA\_F

ClientSampleId :

WC121515-LIQUID-POPHDL

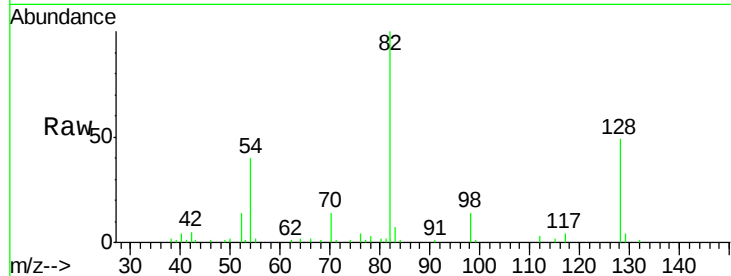
Tgt Ion: 82 Resp: 28860

Ion Ratio Lower Upper

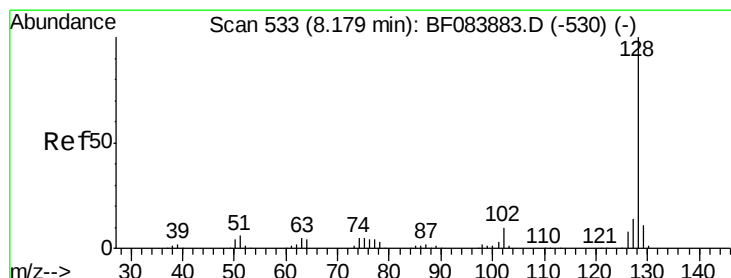
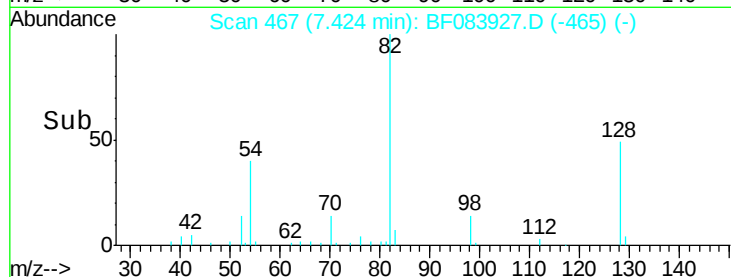
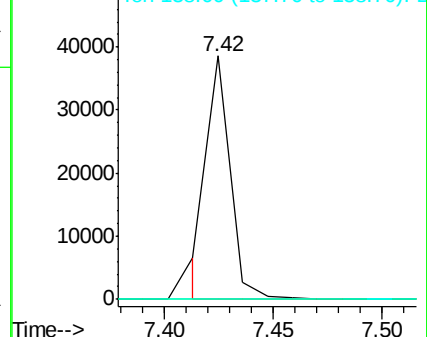
82 100

95 0.0 6.6 10.0#

138 0.0 13.6 20.4#



Abundance Ion 82.00 (81.70 to 82.70): BF0  
Ion 95.00 (94.70 to 95.70): BF0  
Ion 138.00 (137.70 to 138.70): BF0



#31

Naphthalene

Concen: 42.43 ng

RT: 8.17 min Scan# 532

Delta R.T. -0.01 min

Lab File: BF083927.D

Acq: 18 Dec 2015 21:49

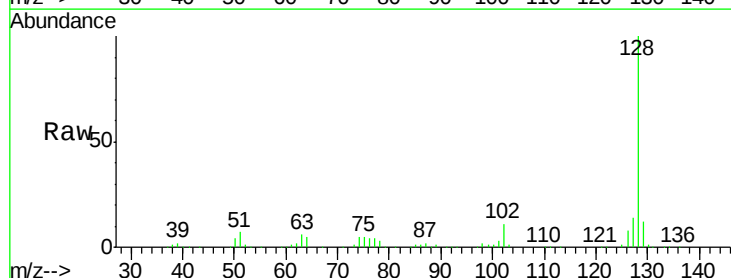
Tgt Ion: 128 Resp: 508835

Ion Ratio Lower Upper

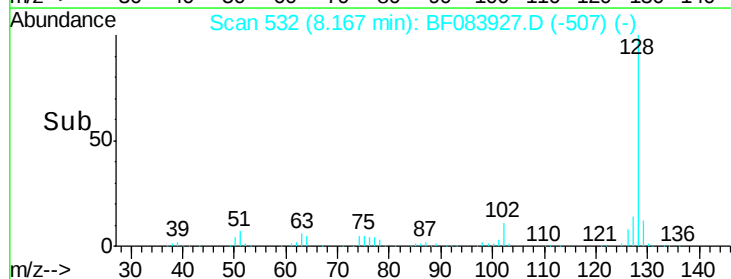
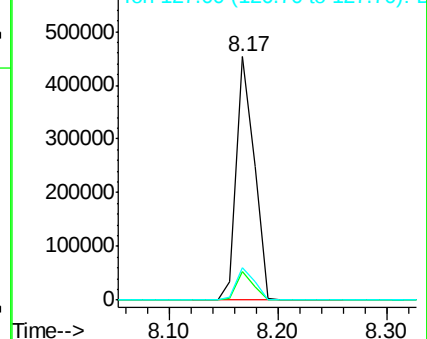
128 100

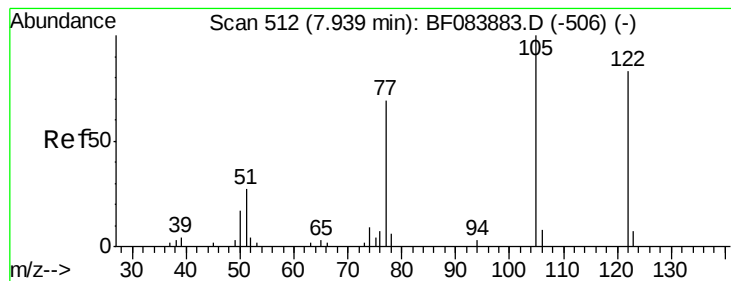
129 11.7 9.1 13.7

127 13.6 11.1 16.7



Abundance Ion 128.00 (127.70 to 128.70): E  
Ion 129.00 (128.70 to 129.70): E  
Ion 127.00 (126.70 to 127.70): E





#32

Benzoic acid

Concen: 6.23 ng

RT: 7.94 min Scan# 512

Delta R.T. 0.00 min

Lab File: BF083927.D

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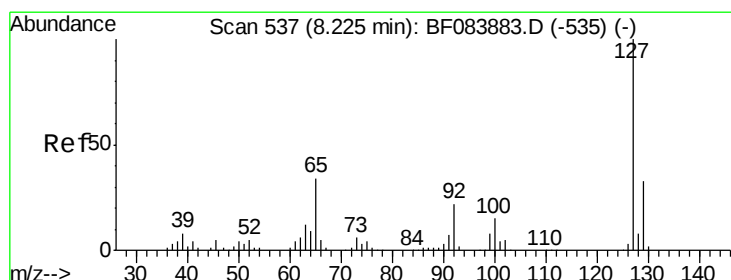
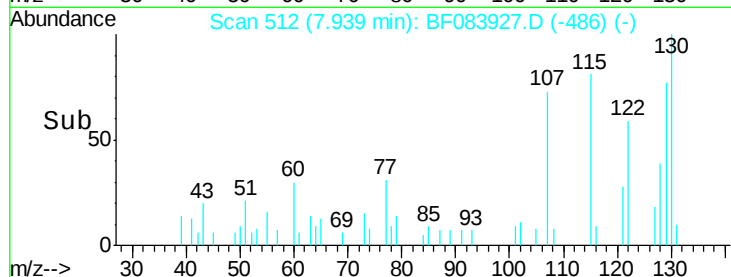
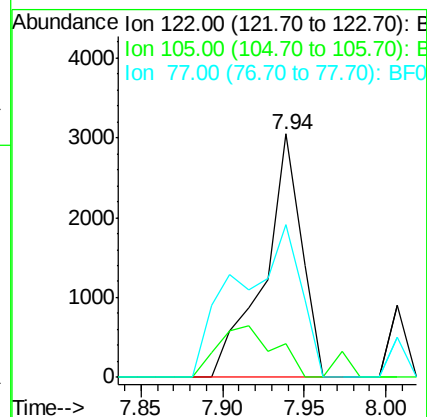
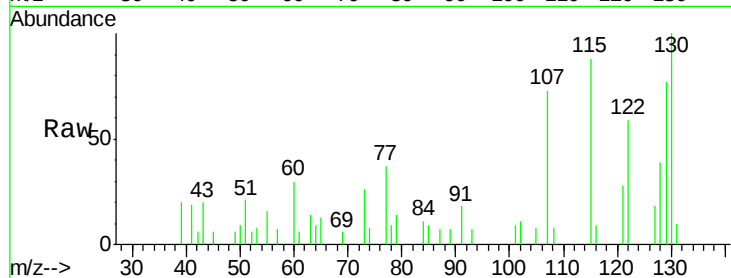
Tgt Ion:122 Resp: 4898

Ion Ratio Lower Upper

122 100

105 14.0 100.3 140.3#

77 62.7 63.5 103.5#



#33

4-Chloroaniline

Concen: 12.63 ng

RT: 8.17 min Scan# 532

Delta R.T. -0.06 min

Lab File: BF083927.D

Acq: 18 Dec 2015 21:49

Tgt Ion:127 Resp: 68033

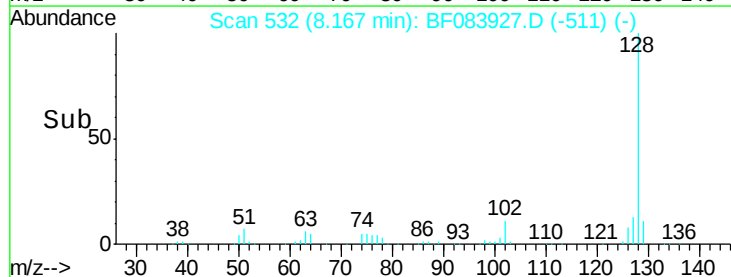
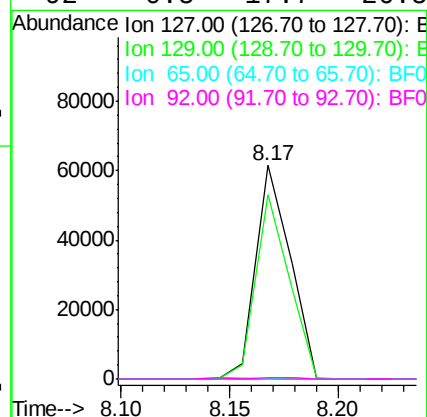
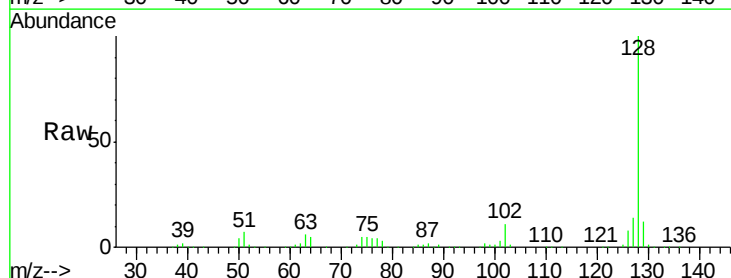
Ion Ratio Lower Upper

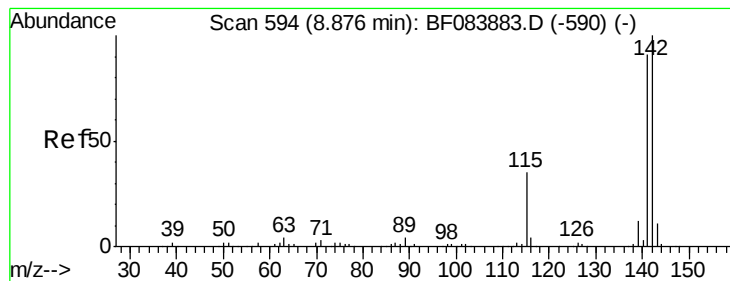
127 100

129 86.2 26.5 39.7#

65 0.0 27.2 40.8#

92 0.5 17.7 26.5#





#37

2-Methylnaphthalene

Concen: 6.13 ng

RT: 8.86 min Scan# 593

Delta R.T. -0.01 min

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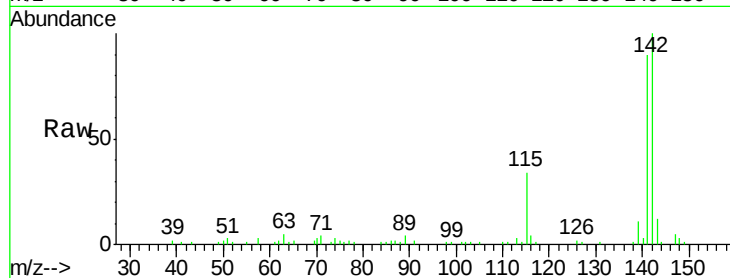
Tgt Ion:142 Resp: 50572

Ion Ratio Lower Upper

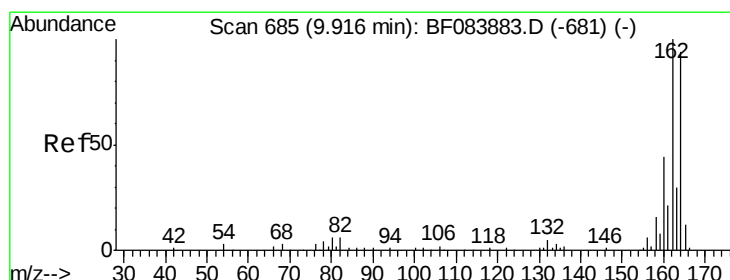
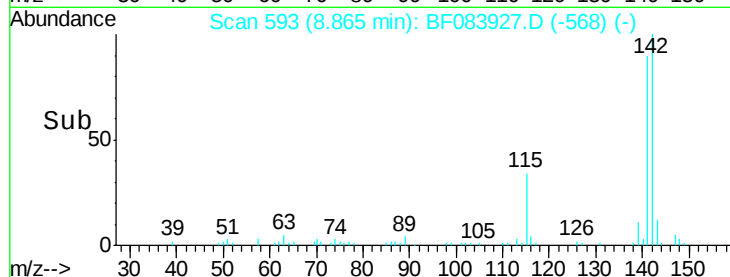
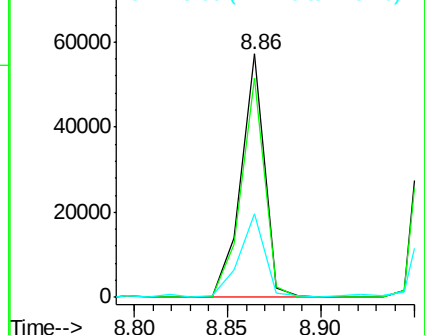
142 100

141 90.2 72.4 108.6

115 34.2 27.9 41.9



Abundance Ion 142.00 (141.70 to 142.70): E  
Ion 141.00 (140.70 to 141.70): E  
Ion 115.00 (114.70 to 115.70): E



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.90 min Scan# 684

Delta R.T. -0.01 min

Lab File: BF083927.D

Acq: 18 Dec 2015 21:49

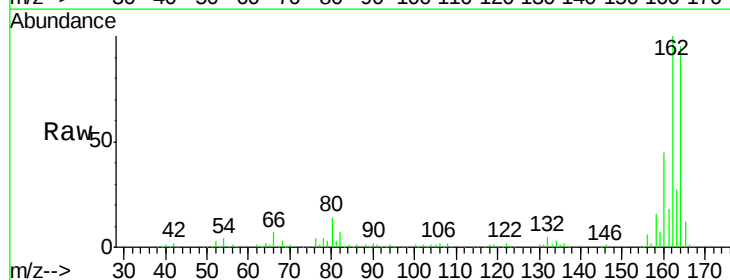
Tgt Ion:164 Resp: 126578

Ion Ratio Lower Upper

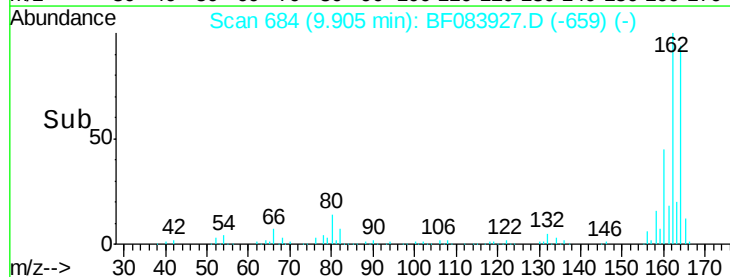
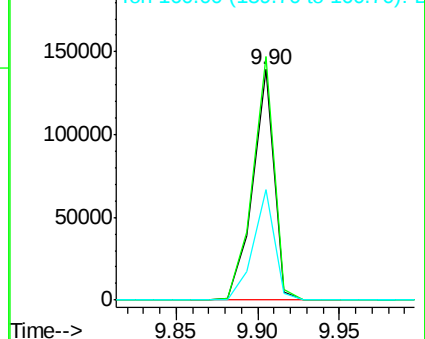
164 100

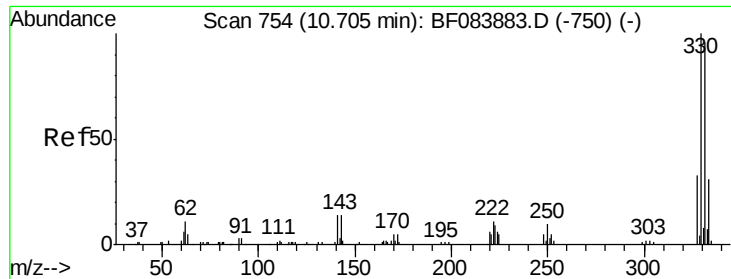
162 105.6 85.1 127.7

160 48.0 37.5 56.3



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

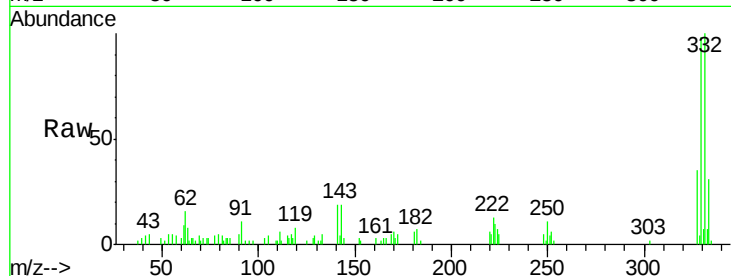




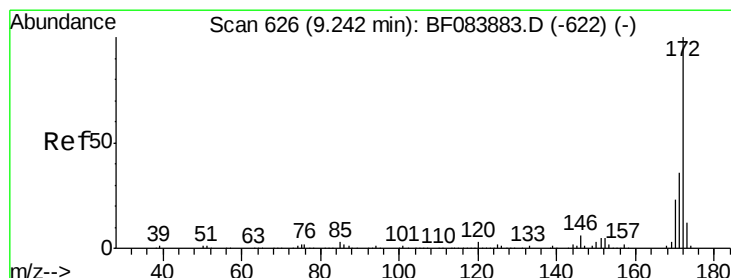
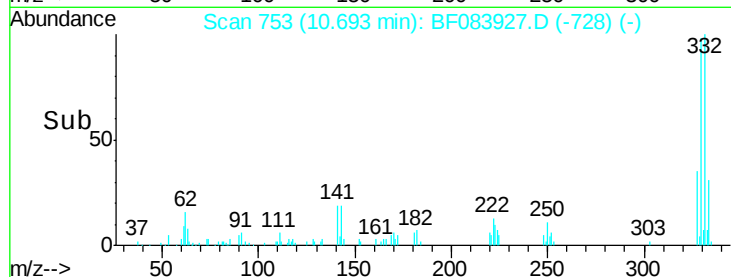
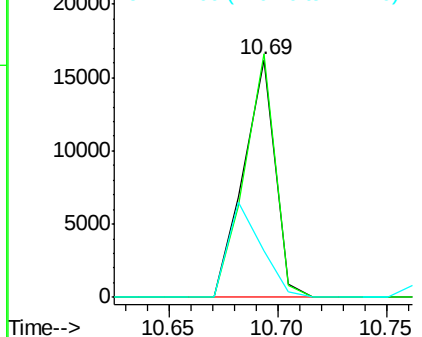
#41  
 2,4,6-Tribromophenol  
 Concen: 11.77 ng  
 RT: 10.69 min Scan# 753  
 Delta R.T. -0.01 min  
 Lab File: BF083927.D  
 Acq: 18 Dec 2015 21:49

Instrument :  
 BNA\_F  
 ClientSampleId :  
 WC121515-LIQUID-POPHDL

Tgt Ion:330 Resp: 16413  
 Ion Ratio Lower Upper  
 330 100  
 332 99.2 76.6 114.8  
 141 42.0 27.8 41.6#

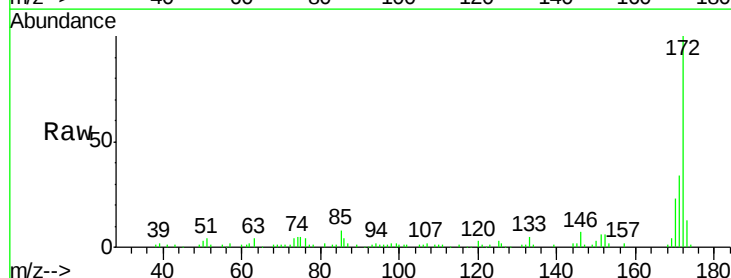


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

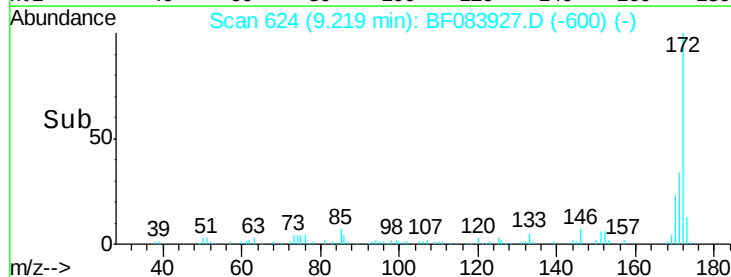
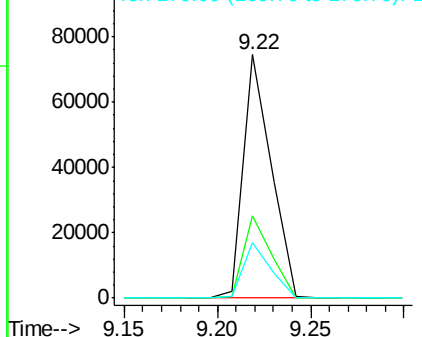


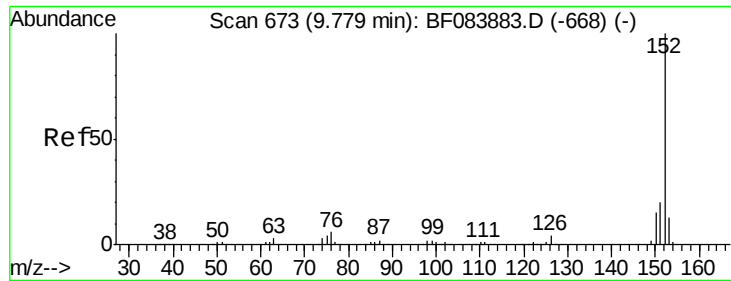
#44  
 2-Fluorobiphenyl  
 Concen: 6.80 ng  
 RT: 9.22 min Scan# 624  
 Delta R.T. -0.02 min  
 Lab File: BF083927.D  
 Acq: 18 Dec 2015 21:49

Tgt Ion:172 Resp: 77093  
 Ion Ratio Lower Upper  
 172 100  
 171 33.7 28.9 43.3  
 170 23.0 18.6 27.8



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





#48

Acenaphthylene

Concen: 2.09 ng

RT: 9.77 min Scan# 672

Delta R.T. -0.01 min

Lab File: BF083927.D

Acq: 18 Dec 2015 21:49

Instrument :

BNA\_F

ClientSampleId :

WC121515-LIQUID-POPHDL

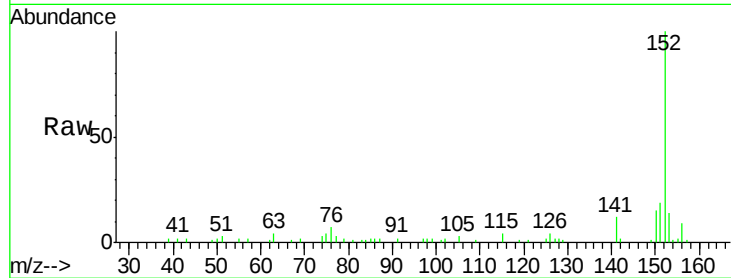
Tgt Ion:152 Resp: 30887

Ion Ratio Lower Upper

152 100

151 19.4 16.3 24.5

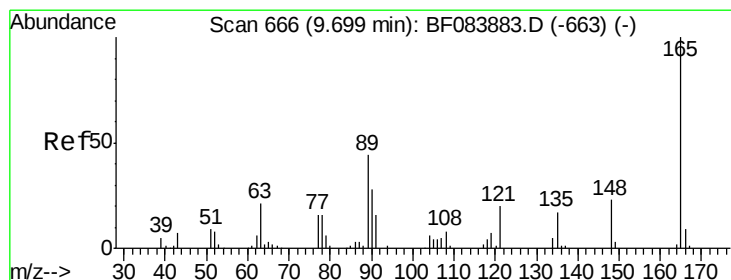
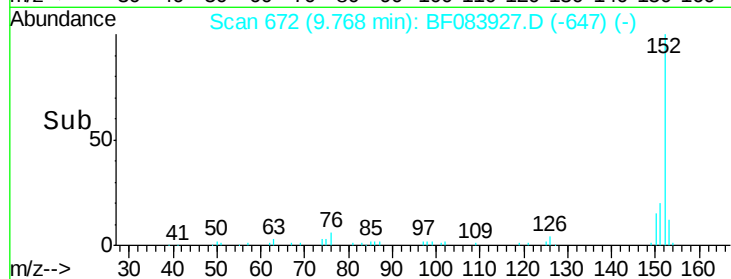
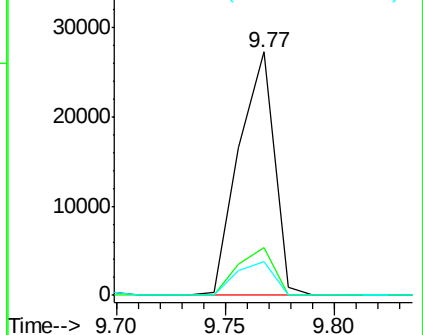
153 13.8 10.4 15.6



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#50

2,6-Dinitrotoluene

Concen: 7.18 ng

RT: 9.90 min Scan# 684

Delta R.T. 0.21 min

Lab File: BF083927.D

Acq: 18 Dec 2015 21:49

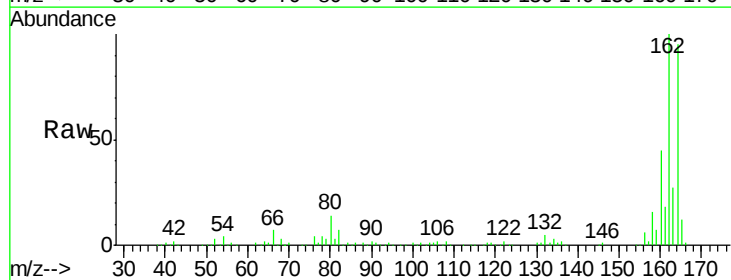
Tgt Ion:165 Resp: 16646

Ion Ratio Lower Upper

165 100

63 2.0 28.8 43.2#

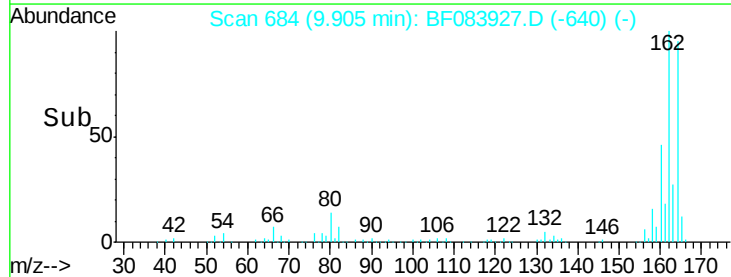
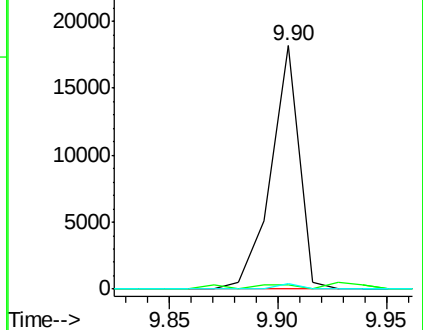
89 2.2 35.1 52.7#

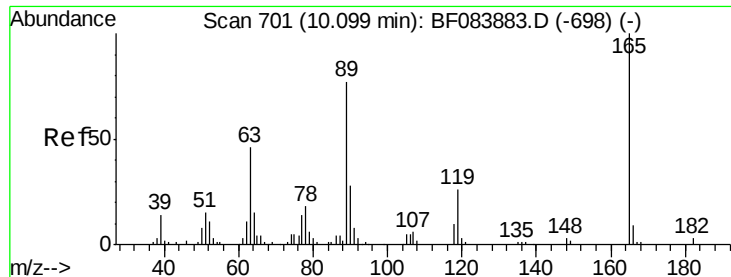


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0





#56

2,4-Dinitrotoluene

Concen: 5.60 ng

RT: 9.90 min Scan# 684

Delta R.T. -0.19 min

Lab File: BF083927.D

Acq: 18 Dec 2015 21:49

Instrument :

BNA\_F

ClientSampleId :

WC121515-LIQUID-POPHDL

Tgt Ion:165 Resp: 16643

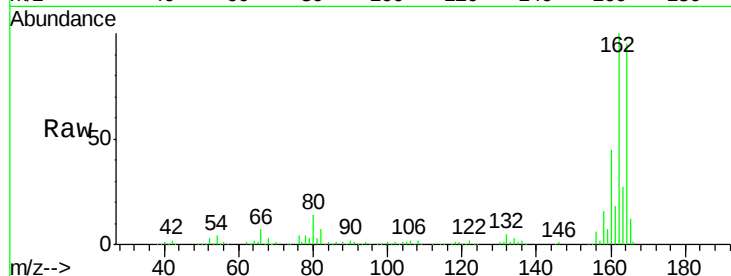
Ion Ratio Lower Upper

165 100

63 2.0 36.7 55.1#

89 2.2 61.9 92.9#

182 0.0 2.0 3.0#

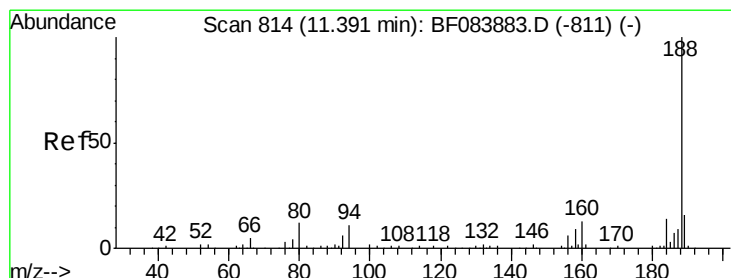
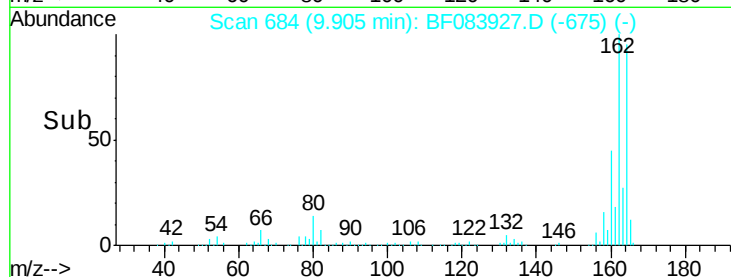
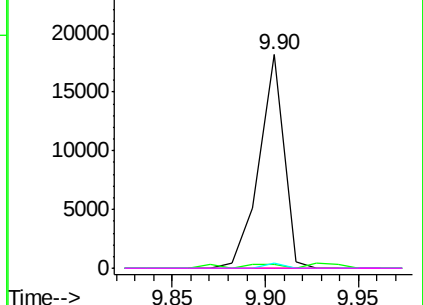


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.39 min Scan# 814

Delta R.T. -0.00 min

Lab File: BF083927.D

Acq: 18 Dec 2015 21:49

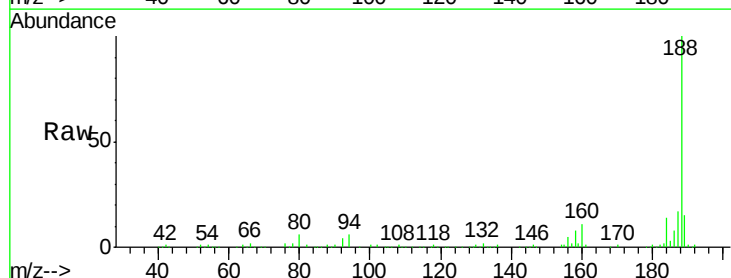
Tgt Ion:188 Resp: 224717

Ion Ratio Lower Upper

188 100

94 6.1 9.0 13.4#

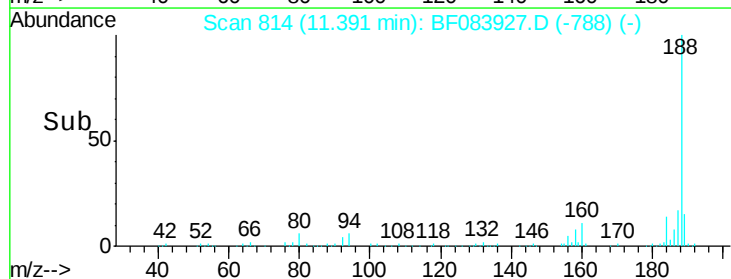
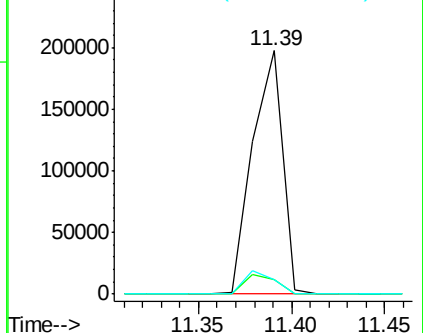
80 6.2 9.6 14.4#

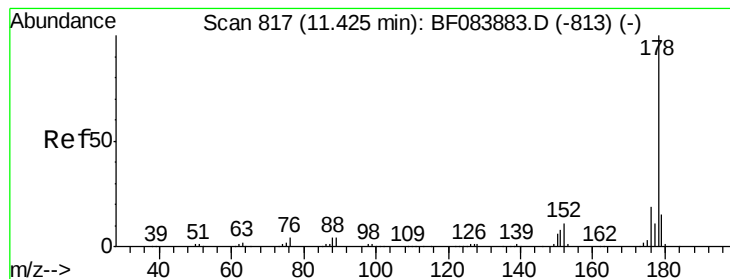


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0





#70

Phenanthrene

Concen: 2.44 ng

RT: 11.41 min Scan# 816

Delta R.T. -0.01 min

Lab File: BF083927.D

Acq: 18 Dec 2015 21:49

Instrument :

BNA\_F

ClientSampleId :

WC121515-LIQUID-POPHDL

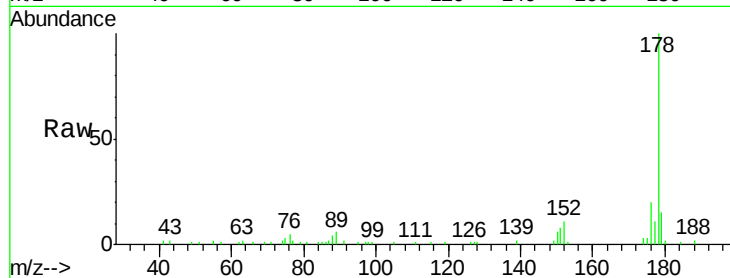
Tgt Ion:178 Resp: 33143

Ion Ratio Lower Upper

178 100

176 20.0 15.3 22.9

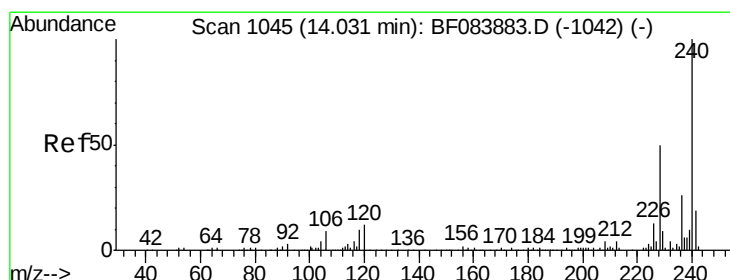
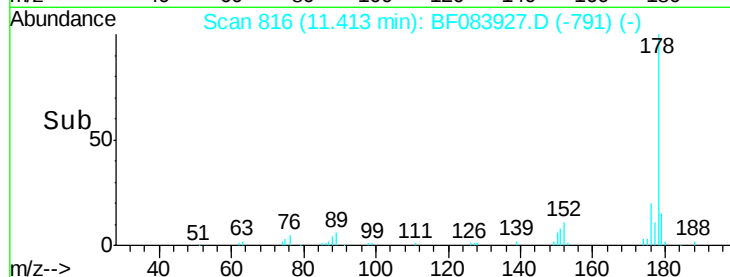
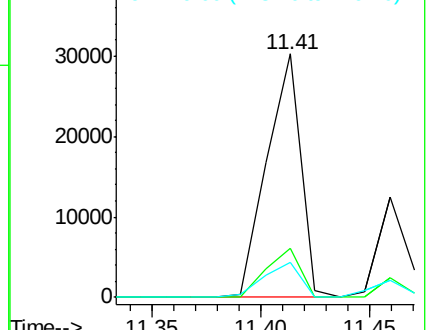
179 14.6 12.0 18.0



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: 20.00 ng

RT: 14.02 min Scan# 1044

Delta R.T. -0.01 min

Lab File: BF083927.D

Acq: 18 Dec 2015 21:49

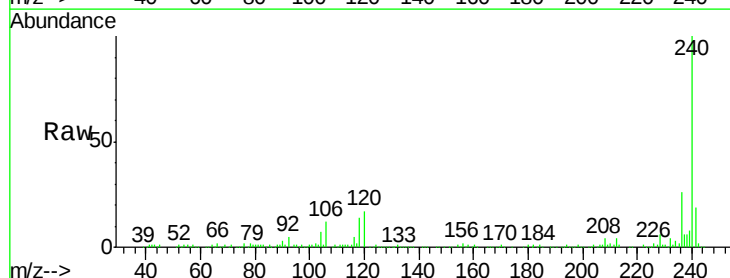
Tgt Ion:240 Resp: 230090

Ion Ratio Lower Upper

240 100

120 16.6 9.5 14.3#

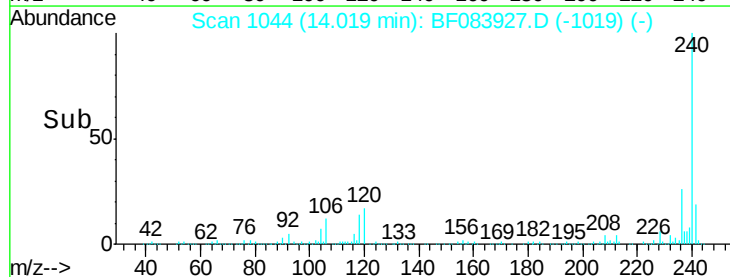
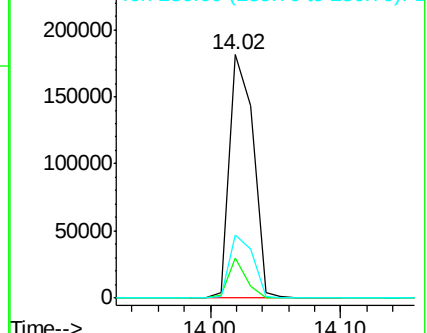
236 25.8 20.6 31.0

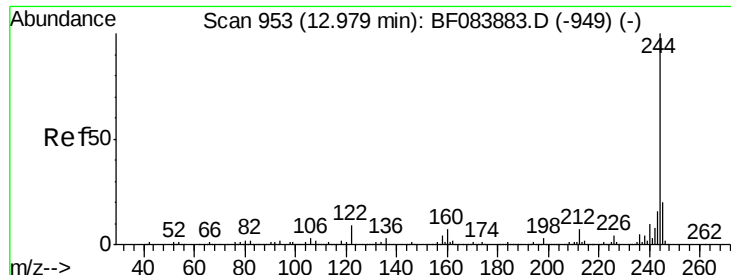


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

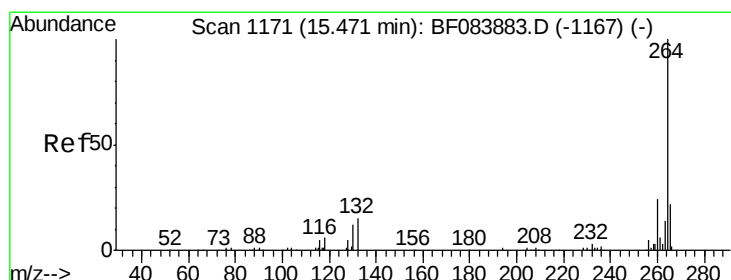
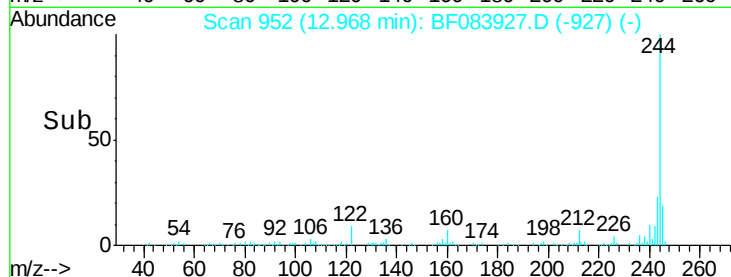
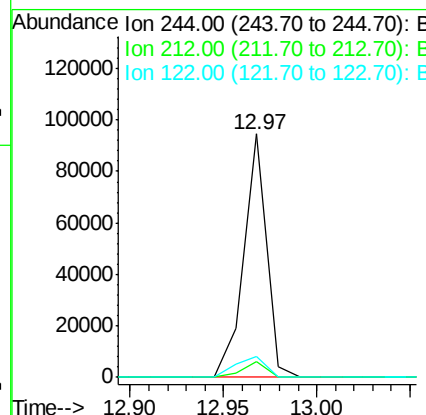
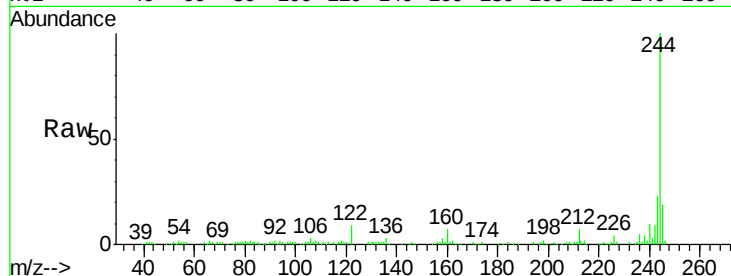




#78  
 Terphenyl-d14  
 Concen: 2.12 ng  
 RT: 12.97 min Scan# 952  
 Delta R.T. -0.01 min  
 Lab File: BF083927.D  
 Acq: 18 Dec 2015 21:49

Instrument :  
 BNA\_F  
 ClientSampleId :  
 WC121515-LIQUID-POPHDL

Tgt Ion:244 Resp: 81017  
 Ion Ratio Lower Upper  
 244 100  
 212 6.7 5.7 8.5  
 122 8.6 7.4 11.0



#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 15.46 min Scan# 1170  
 Delta R.T. -0.01 min  
 Lab File: BF083927.D  
 Acq: 18 Dec 2015 21:49

Tgt Ion:264 Resp: 163556  
 Ion Ratio Lower Upper  
 264 100  
 260 24.2 19.4 29.2  
 265 21.8 17.8 26.6

