

Data Path : Z:\HPCHEM1\BNA F\DATA\BF082217\  
 Data File : BF097965.D  
 Acq On : 22 Aug 2017 20:38  
 Operator : SJ/JU  
 Sample : I4889-03  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SASP2P-TP-106-E(0-5)COMP

Quant Time: Aug 23 01:05:59 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081517.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Aug 21 15:59:04 2017  
 Response via : Initial Calibration

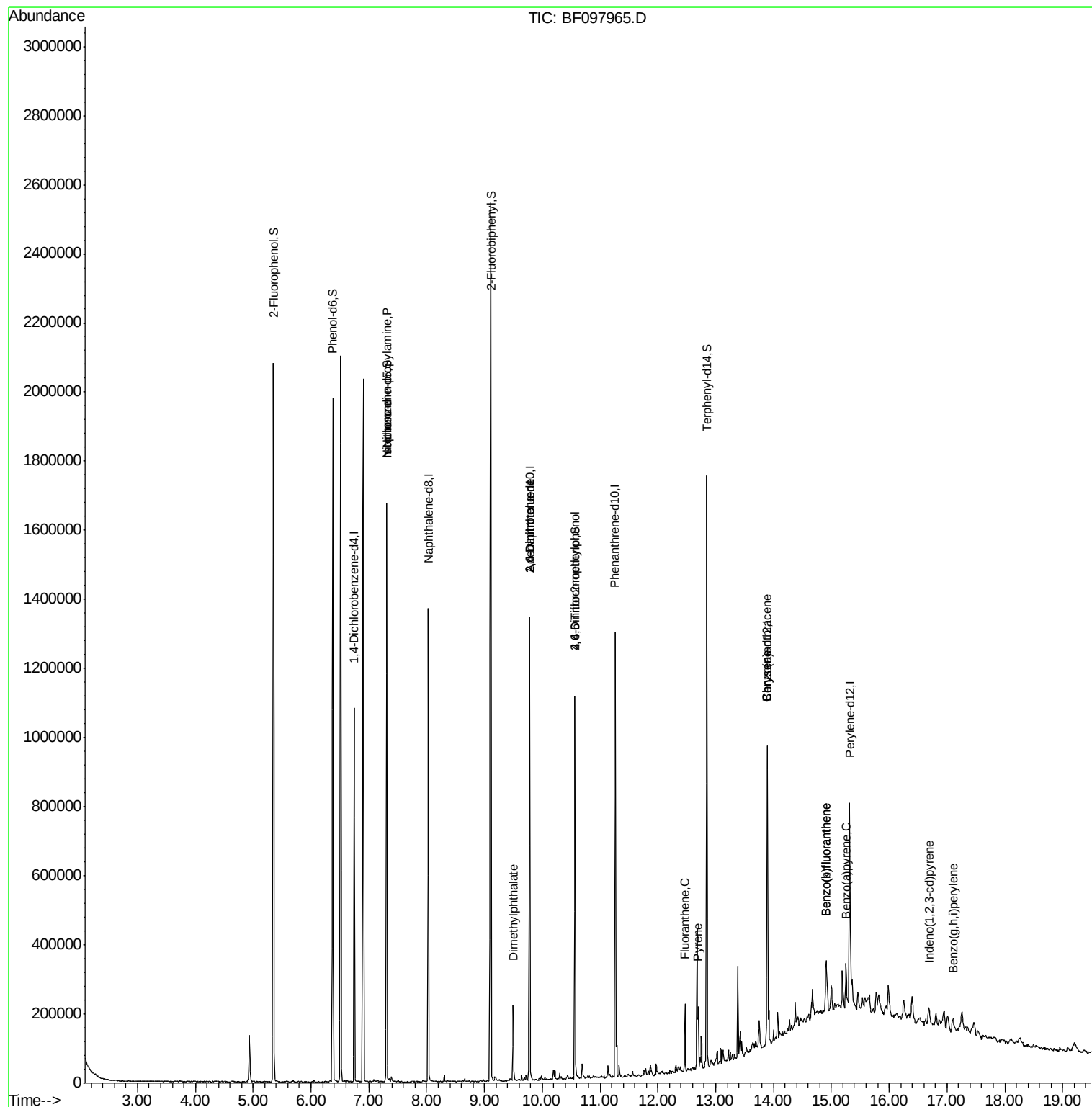
| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.75  | 152  | 143080   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.03  | 136  | 562769   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10           | 9.78  | 164  | 241796   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10           | 11.26 | 188  | 405147   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12               | 13.90 | 240  | 287577   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12               | 15.32 | 264  | 270125   | 20.00 | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |       |       |          |
| 5) 2-Fluorophenol              | 5.35  | 112  | 562240   | 59.77 | ng    | 0.00     |
| 7) Phenol-d6                   | 6.38  | 99   | 750373   | 58.71 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.31  | 82   | 587093   | 56.67 | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol       | 10.57 | 330  | 116813   | 55.68 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 9.11  | 172  | 862357   | 52.40 | ng    | 0.00     |
| 78) Terphenyl-d14              | 12.85 | 244  | 542731   | 39.36 | ng    | 0.00     |
| Target Compounds               |       |      |          |       |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.31  | 70   | 79480    | 9.08  | ng    | # 72     |
| 25) Isophorone                 | 7.31  | 82   | 581495   | 26.99 | ng    | # 67     |
| 49) Dimethylphthalate          | 9.50  | 163  | 72110    | 4.08  | ng    | 97       |
| 50) 2,6-Dinitrotoluene         | 9.78  | 165  | 31053    | 8.80  | ng    | # 33     |
| 56) 2,4-Dinitrotoluene         | 9.78  | 165  | 31053    | 7.01  | ng    | # 33     |
| 64) 4,6-Dinitro-2-methylphenol | 10.57 | 198  | 260      | 8.43  | ng    | # 1      |
| 74) Fluoranthene               | 12.47 | 202  | 67592    | 3.00  | ng    | 98       |
| 77) Pyrene                     | 12.70 | 202  | 69889    | 2.97  | ng    | 95       |
| 80) Benzo(a)anthracene         | 13.89 | 228  | 42741    | 2.48  | ng    | 93       |
| 82) Chrysene                   | 13.89 | 228  | 42741    | 2.49  | ng    | 95       |
| 85) Indeno(1,2,3-cd)pyrene     | 16.69 | 276  | 34016    | 2.70  | ng    | # 90     |
| 87) Benzo(b)fluoranthene       | 14.91 | 252  | 96814    | 5.69  | ng    | 97       |
| 88) Benzo(k)fluoranthene       | 14.91 | 252  | 96814    | 6.05  | ng    | 96       |
| 89) Benzo(a)pyrene             | 15.26 | 252  | 63574    | 4.22  | ng    | 97       |
| 91) Benzo(a,h,i)perylene       | 17.10 | 276  | 34668    | 2.71  | ng    | 92       |

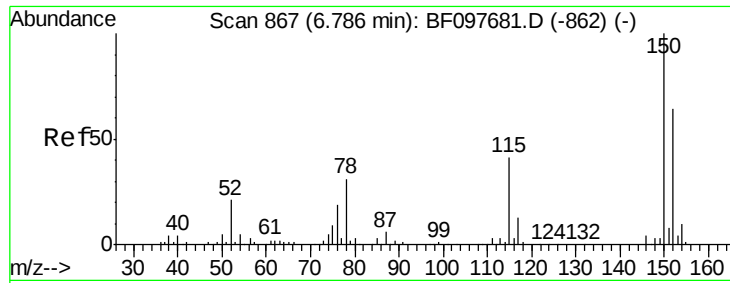
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Aug 21 15:59:04 2017  
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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.75 min Scan# 792

Delta R.T. -0.01 min

Lab File: BF097965.D

Acq: 22 Aug 2017 20:38

Instrument :

BNA\_F

ClientSampleId :

SASP2P-TP-106-E(0-5)COMP

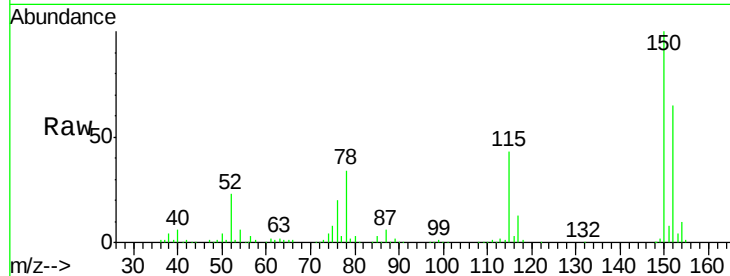
Tot Ion:152 Resp: 143080

Ion Ratio Lower Upper

152 100

150 154.3 126.2 189.2

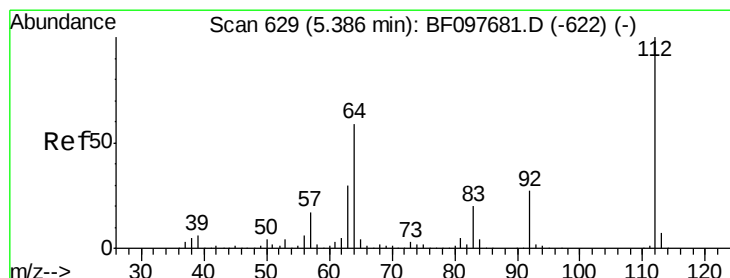
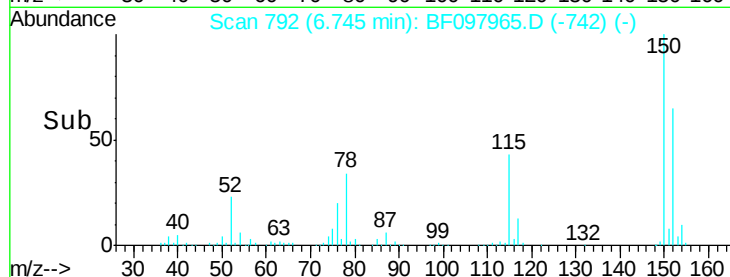
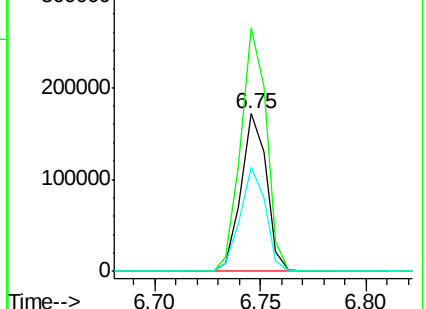
115 66.3 52.2 78.2



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: 59.77 ng

RT: 5.35 min Scan# 555

Delta R.T. 0.00 min

Lab File: BF097965.D

Acq: 22 Aug 2017 20:38

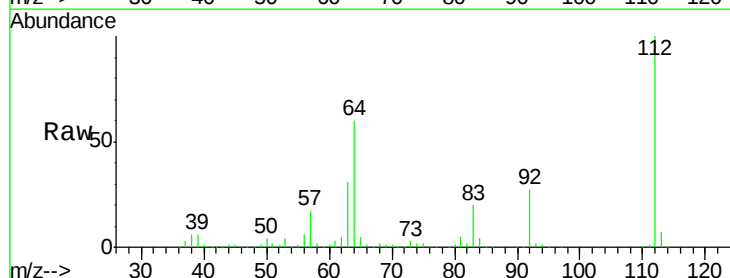
Tgt Ion:112 Resp: 562240

Ion Ratio Lower Upper

112 100

64 60.0 46.0 69.0

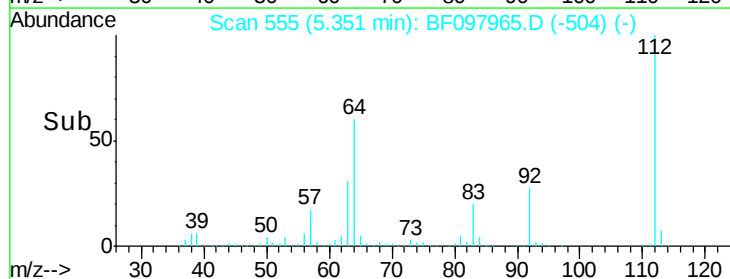
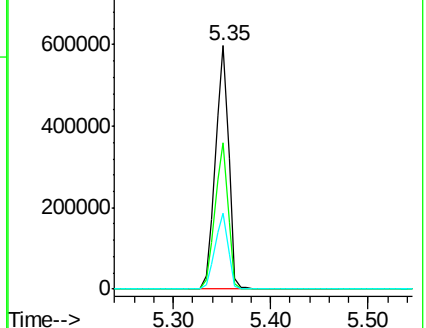
63 31.3 23.4 35.0

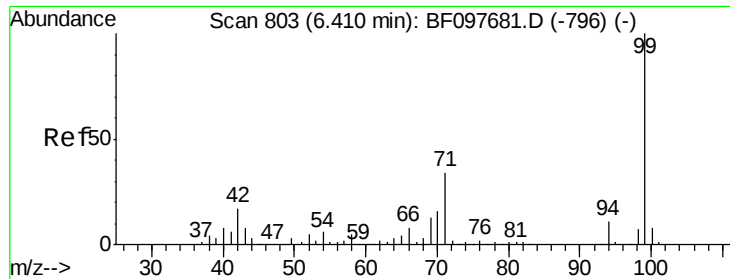


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 58.71 ng

RT: 6.38 min Scan# 730

Delta R.T. -0.01 min

Lab File: BF097965.D

Acq: 22 Aug 2017 20:38

Instrument :

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ClientSampleId :

SASP2P-TP-106-E(0-5)COMP

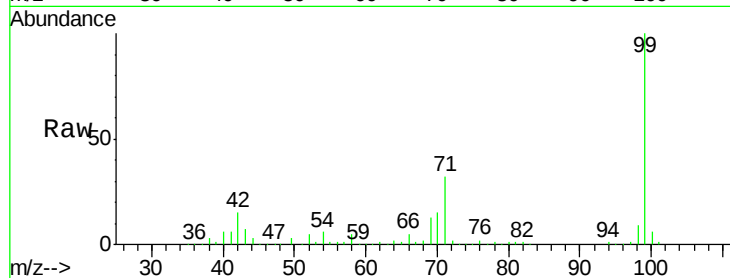
Tot Ion: 99 Resp: 750373

Ion Ratio Lower Upper

99 100

42 15.2 13.5 20.3

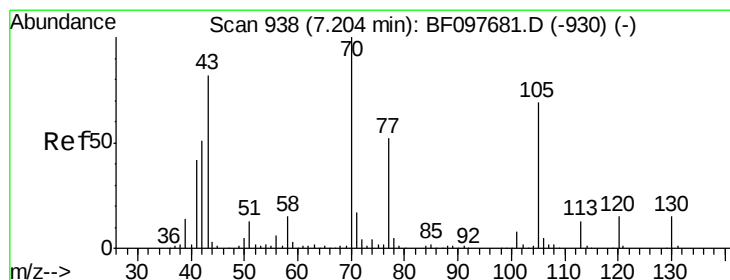
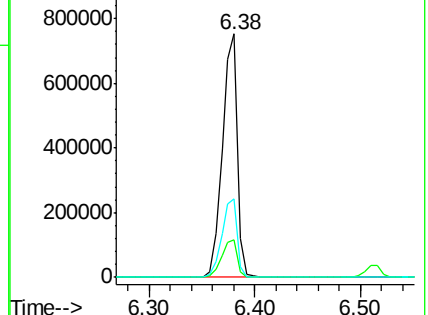
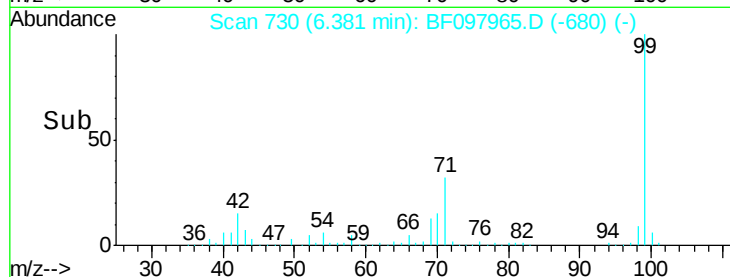
71 32.1 24.5 36.7



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



#19

n-Nitroso-di-n-propylamine

Concen: 9.08 ng

RT: 7.31 min Scan# 888

Delta R.T. 0.14 min

Lab File: BF097965.D

Acq: 22 Aug 2017 20:38

Tgt Ion: 70 Resp: 79480

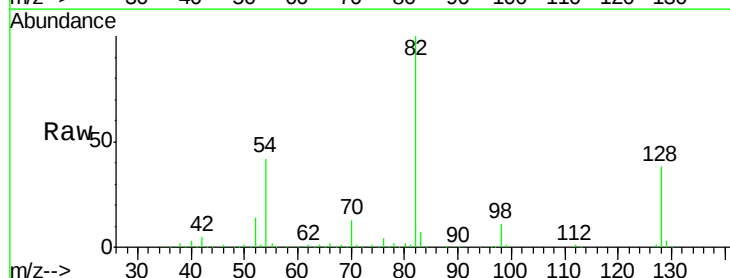
Ion Ratio Lower Upper

70 100

42 40.3 47.2 70.8#

101 0.0 7.2 10.8#

130 1.6 15.9 23.9#

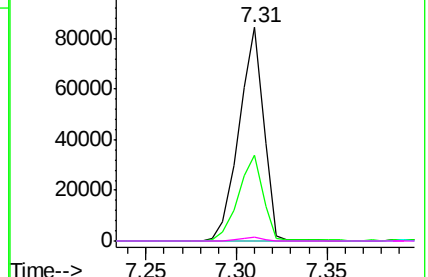
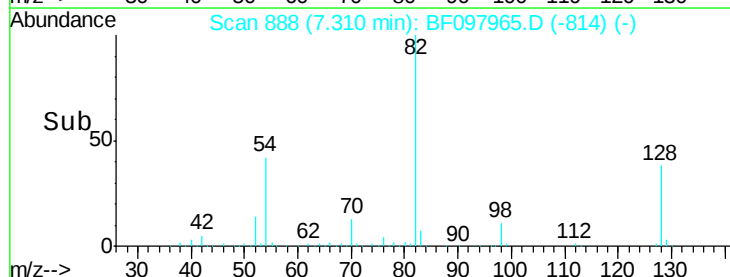


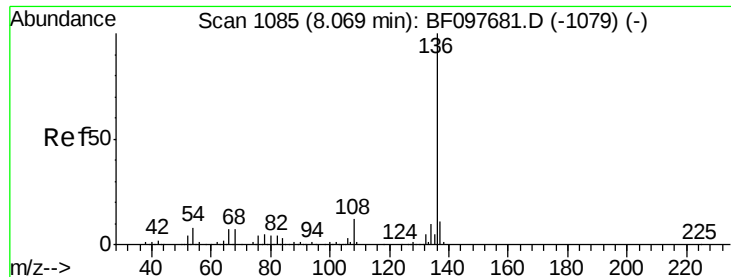
Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): BF0

Ion 130.00 (129.70 to 130.70): BF0





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.03 min Scan# 1010

Delta R.T. -0.01 min

Lab File: BF097965.D

Acq: 22 Aug 2017 20:38

Instrument :

BNA\_F

ClientSampleId :

SASP2P-TP-106-E(0-5)COMP

Tot Ion:136 Resp: 562769

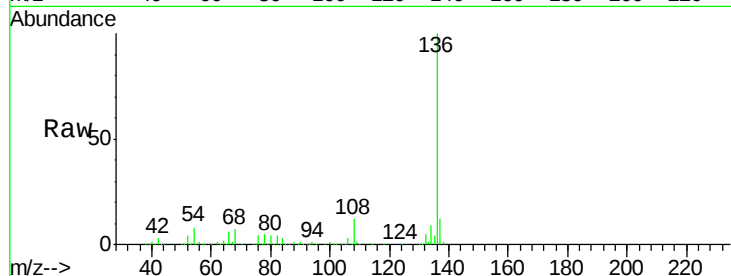
Ion Ratio Lower Upper

136 100

137 11.6 8.5 12.7

54 8.2 4.9 7.3#

68 7.2 4.1 6.1#

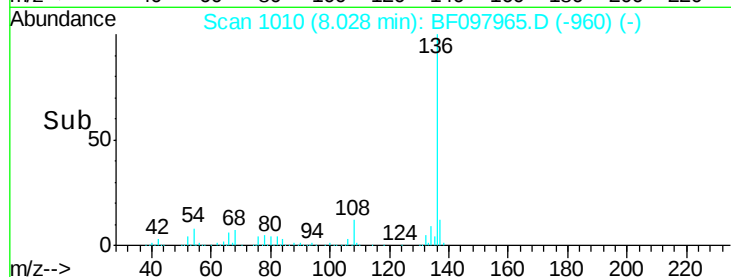


Abundance Ion 136.00 (135.70 to 136.70): E

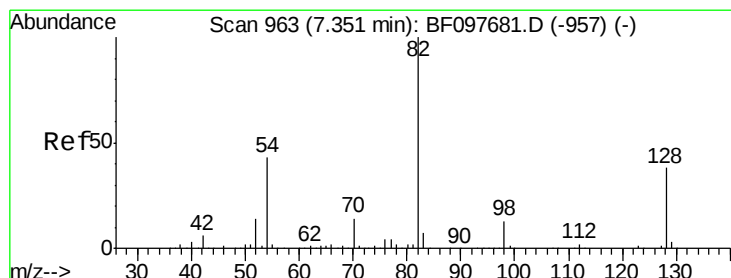
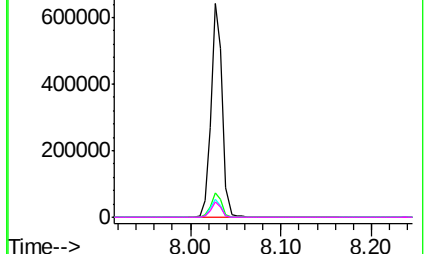
Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0



Time-->



#23

Nitrobenzene-d5

Concen: 56.67 ng

RT: 7.31 min Scan# 888

Delta R.T. -0.01 min

Lab File: BF097965.D

Acq: 22 Aug 2017 20:38

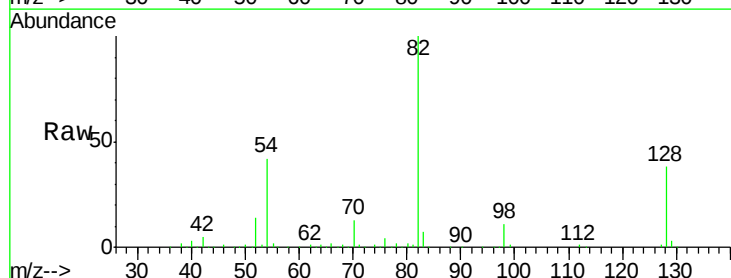
Tgt Ion: 82 Resp: 587093

Ion Ratio Lower Upper

82 100

128 37.9 34.0 51.0

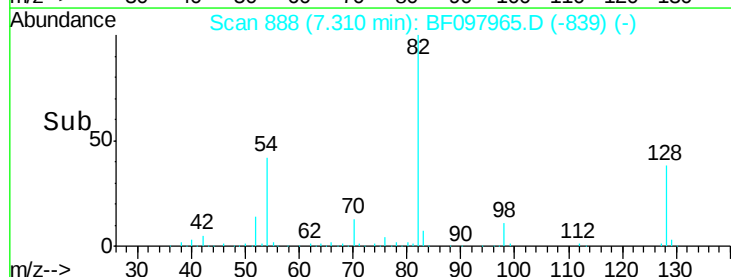
54 42.0 42.2 63.2#



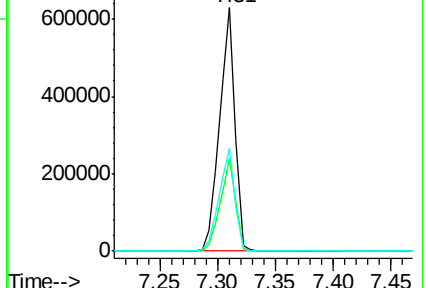
Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0



Time-->





#25

Isophorone

Concen: 26.99 ng

RT: 7.31 min Scan# 888

Delta R.T. -0.27 min

Lab File: BF097965.D

Acq: 22 Aug 2017 20:38

Instrument :

BNA\_F

ClientSampleId :

SASP2P-TP-106-E(0-5)COMP

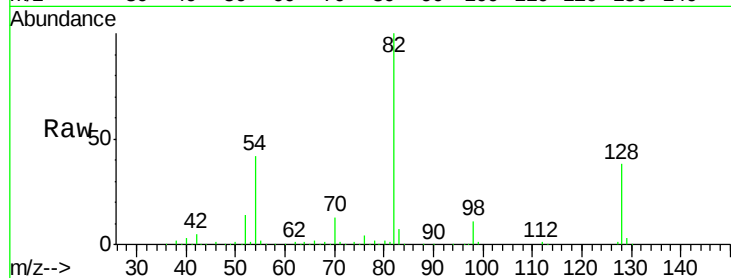
Tot Ion: 82 Resp: 581495

Ion Ratio Lower Upper

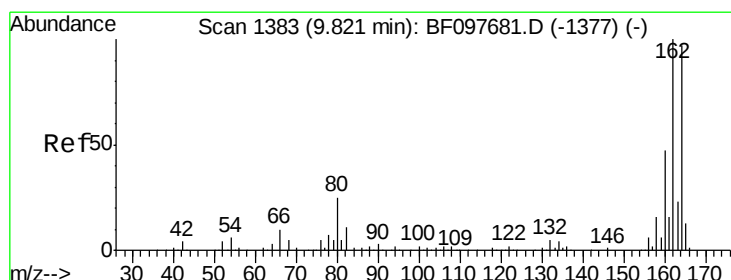
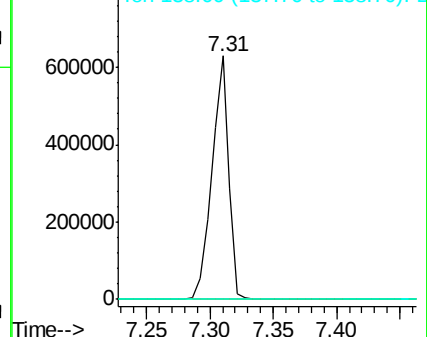
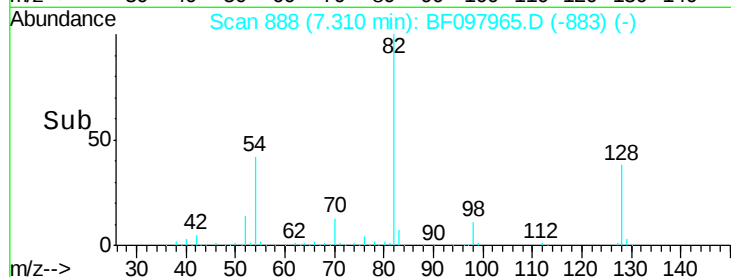
82 100

95 0.0 5.3 7.9#

138 0.0 13.1 19.7#



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): E



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.78 min Scan# 1308

Delta R.T. -0.01 min

Lab File: BF097965.D

Acq: 22 Aug 2017 20:38

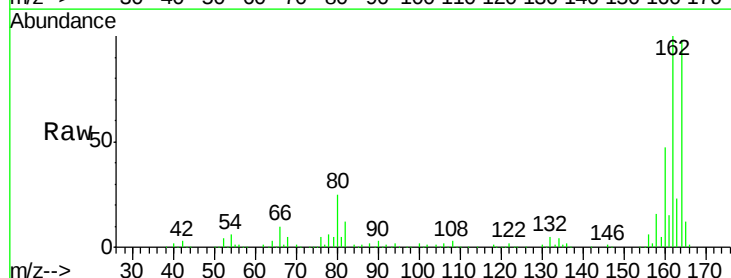
Tgt Ion:164 Resp: 241796

Ion Ratio Lower Upper

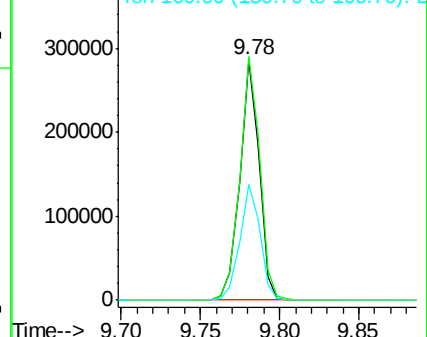
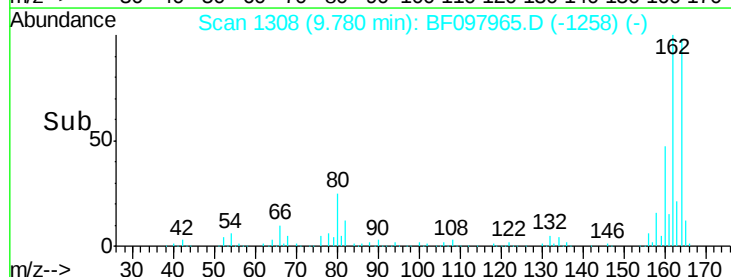
164 100

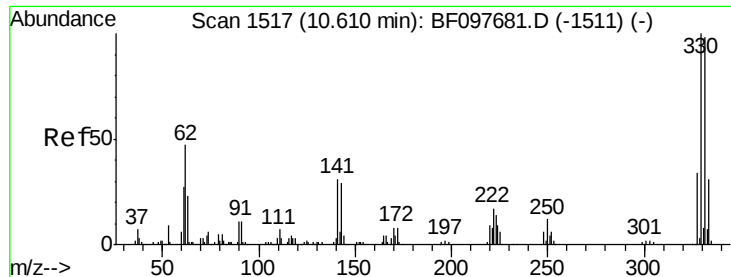
162 101.5 82.6 123.8

160 48.1 36.2 54.2



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





#41

2,4,6-Tribromophenol

Concen: 55.68 ng

RT: 10.57 min Scan# 1442

Delta R.T. -0.01 min

Lab File: BF097965.D

Acq: 22 Aug 2017 20:38

Instrument :

BNA\_F

ClientSampleId :

SASP2P-TP-106-E(0-5)COMP

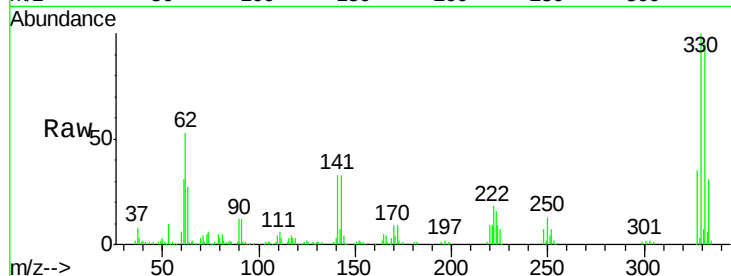
Tot Ion:330 Resp: 116813

Ion Ratio Lower Upper

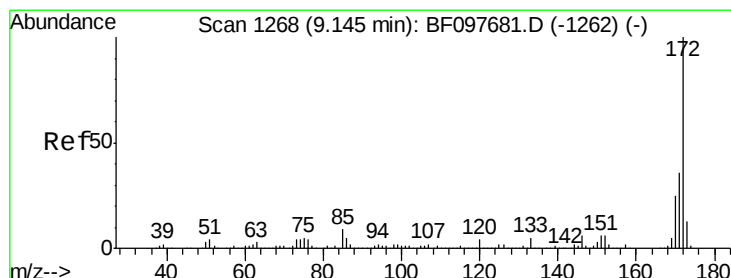
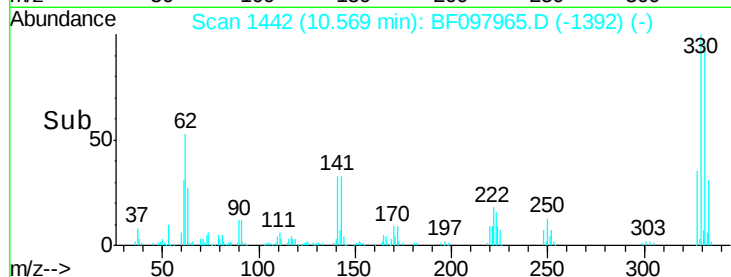
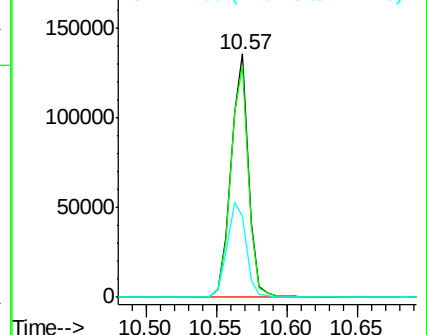
330 100

332 96.3 76.6 115.0

141 42.6 31.4 47.2



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: 52.40 ng

RT: 9.11 min Scan# 1194

Delta R.T. 0.00 min

Lab File: BF097965.D

Acq: 22 Aug 2017 20:38

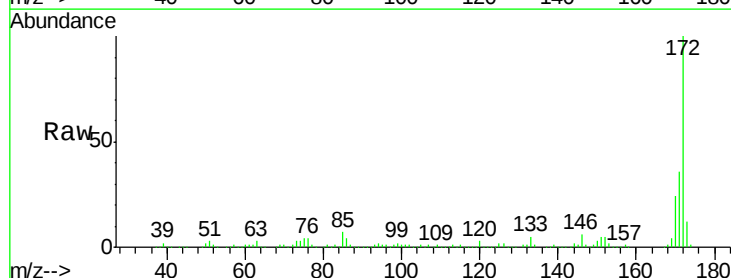
Tgt Ion:172 Resp: 862357

Ion Ratio Lower Upper

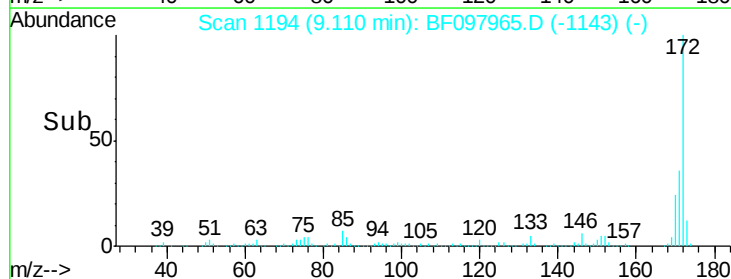
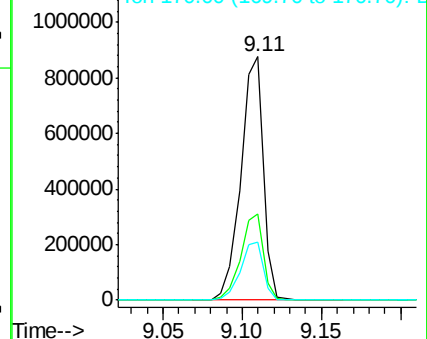
172 100

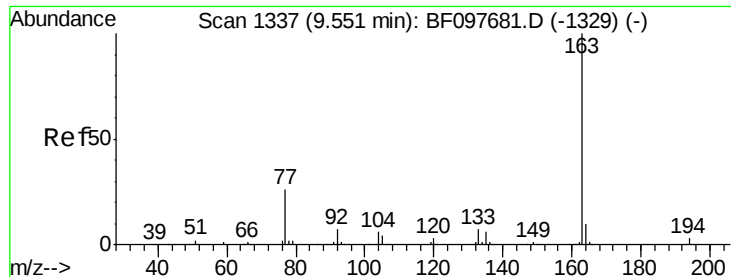
171 35.6 29.6 44.4

170 24.0 19.8 29.8



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

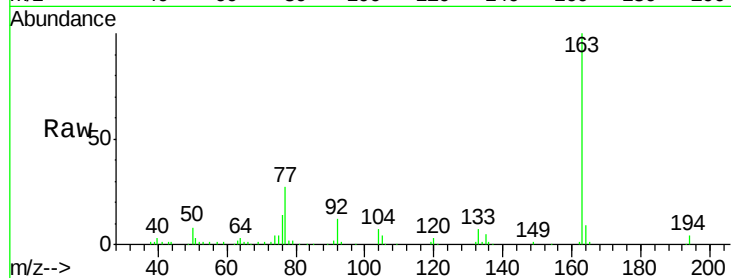




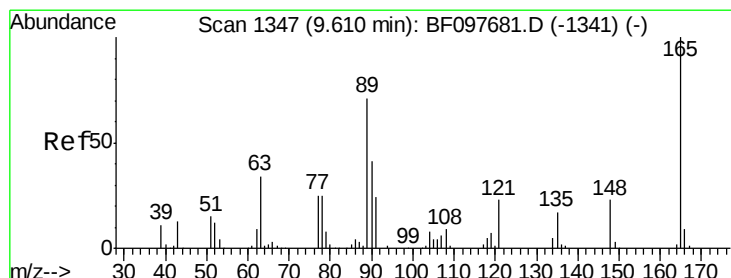
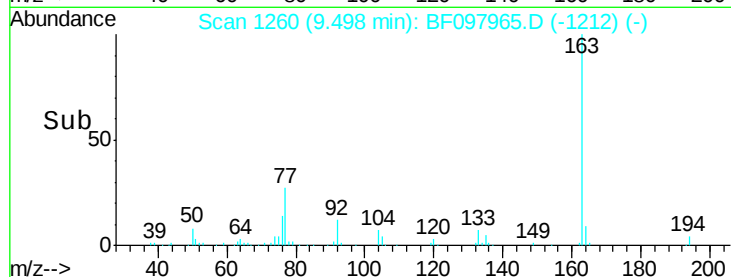
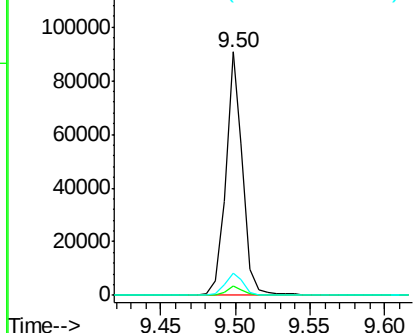
#49  
Dimethylphthalate  
Concen: 4.08 ng  
RT: 9.50 min Scan# 1260  
Delta R.T. -0.02 min  
Lab File: BF097965.D  
Acq: 22 Aug 2017 20:38

Instrument :  
BNA\_F  
ClientSampleId :  
SASP2P-TP-106-E(0-5)COMP

Tot Ion:163 Resp: 72110  
Ion Ratio Lower Upper  
163 100  
194 3.6 2.6 4.0  
164 9.1 8.4 12.6

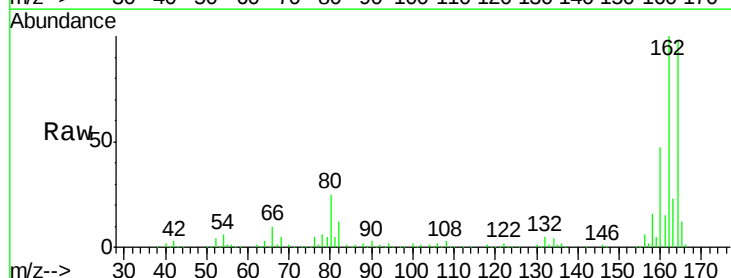


Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E

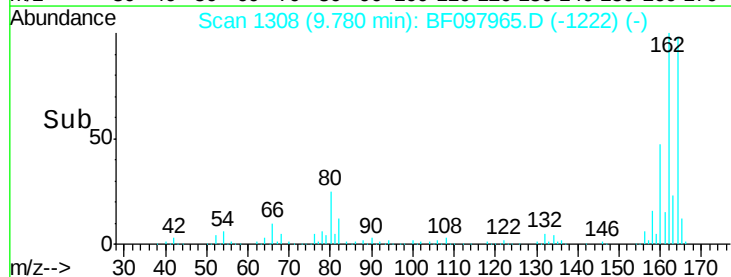
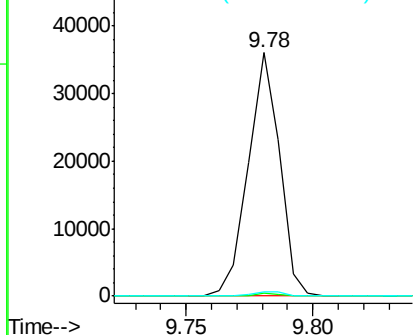


#50  
2,6-Dinitrotoluene  
Concen: 8.80 ng  
RT: 9.78 min Scan# 1308  
Delta R.T. 0.21 min  
Lab File: BF097965.D  
Acq: 22 Aug 2017 20:38

Tgt Ion:165 Resp: 31053  
Ion Ratio Lower Upper  
165 100  
63 1.1 34.3 51.5#  
89 1.5 37.1 55.7#



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

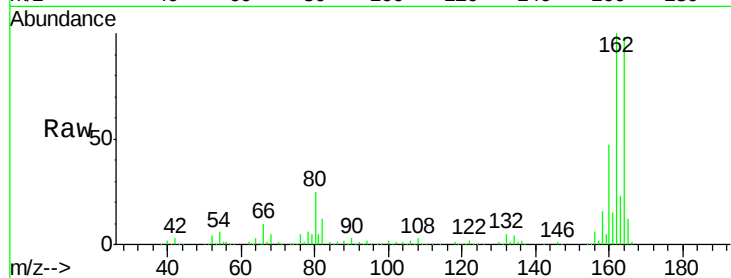




#56  
 2,4-Dinitrotoluene  
 Concen: 7.01 ng  
 RT: 9.78 min Scan# 1308  
 Delta R.T. -0.19 min  
 Lab File: BF097965.D  
 Acq: 22 Aug 2017 20:38

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SASP2P-TP-106-E(0-5)COMP

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.1   | 25.4  | 38.0# |
| 89      | 1.5   | 46.4  | 69.6# |
| 182     | 0.0   | 1.8   | 2.6#  |

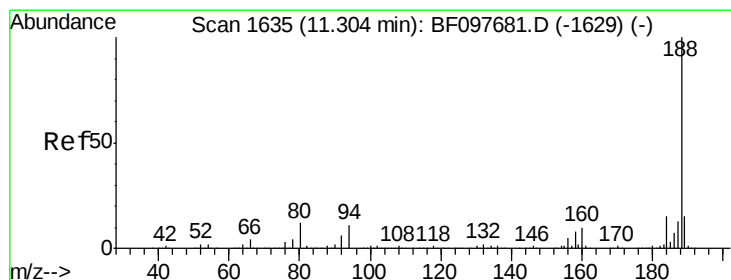
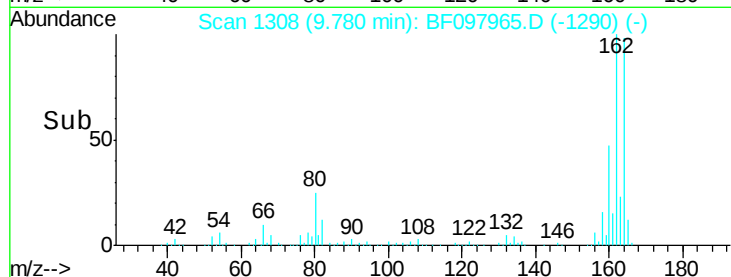
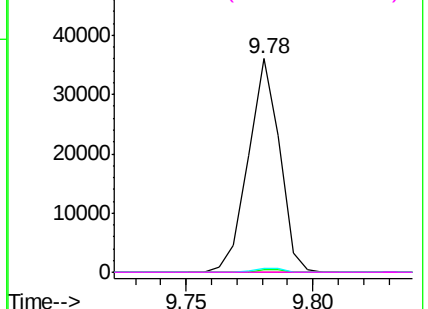


Abundance Ion 165.00 (164.70 to 165.70): E

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



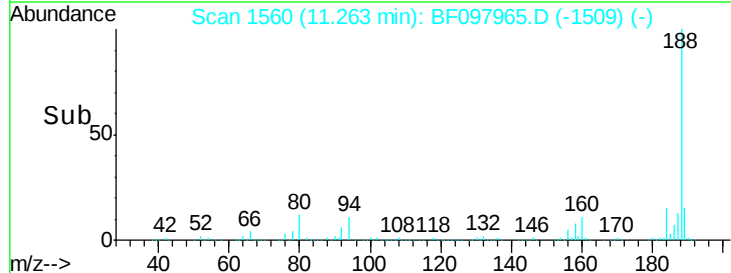
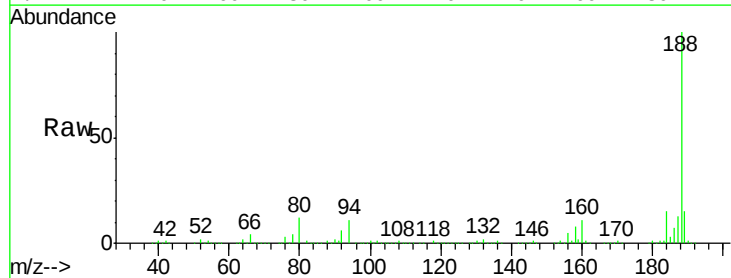
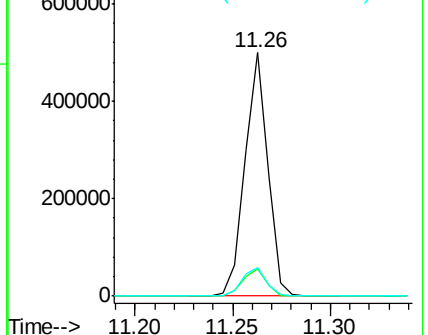
#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 11.26 min Scan# 1560  
 Delta R.T. 0.00 min  
 Lab File: BF097965.D  
 Acq: 22 Aug 2017 20:38

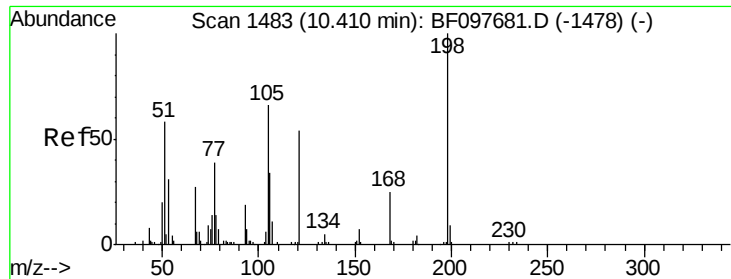
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 11.4  | 9.4   | 14.2  |
| 80      | 12.0  | 10.2  | 15.2  |

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





#64

4,6-Dinitro-2-methylphenol

Concen: 8.43 ng

RT: 10.57 min Scan# 1442

Delta R.T. 0.19 min

Lab File: BF097965.D

Acq: 22 Aug 2017 20:38

Instrument :

BNA\_F

ClientSampleId :

SASP2P-TP-106-E(0-5)COMP

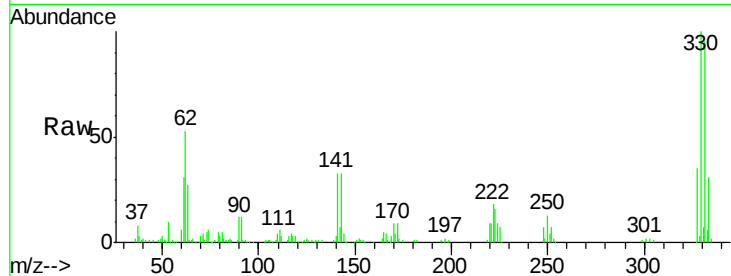
Tot Ion:198 Resp: 260

Ion Ratio Lower Upper

198 100

51 162.5 53.2 93.2#

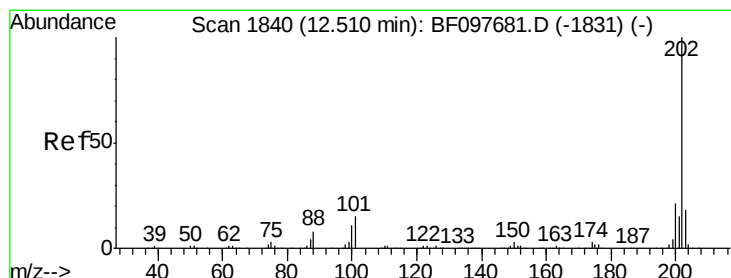
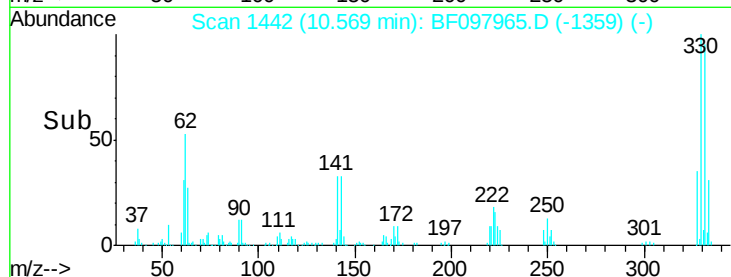
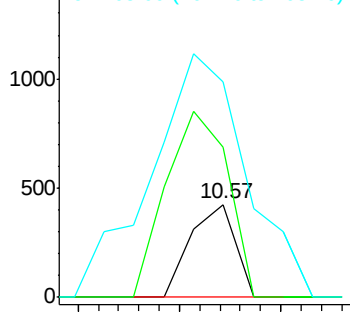
105 233.0 45.8 85.8#



Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BF0

Ion 105.00 (104.70 to 105.70): E



#74

Fluoranthene

Concen: 3.00 ng

RT: 12.47 min Scan# 1765

Delta R.T. -0.01 min

Lab File: BF097965.D

Acq: 22 Aug 2017 20:38

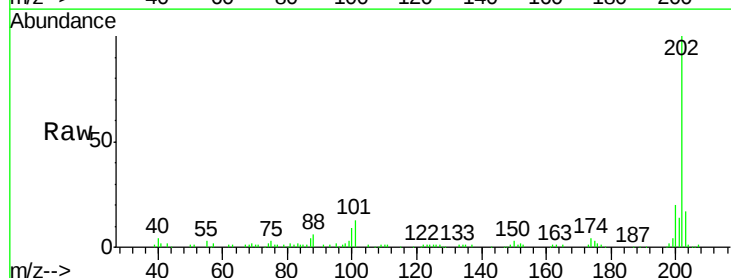
Tgt Ion:202 Resp: 67592

Ion Ratio Lower Upper

202 100

101 13.3 0.0 33.2

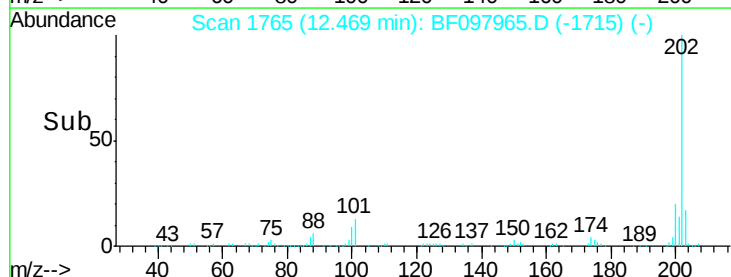
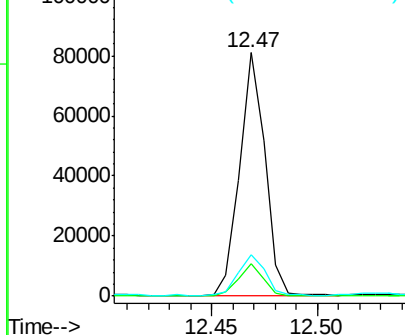
203 16.8 0.0 38.1

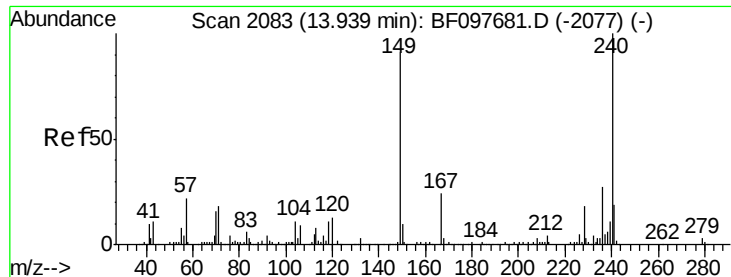


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.90 min Scan# 2008

Delta R.T. 0.00 min

Lab File: BF097965.D

Acq: 22 Aug 2017 20:38

Instrument :

BNA\_F

ClientSampleId :

SASP2P-TP-106-E(0-5)COMP

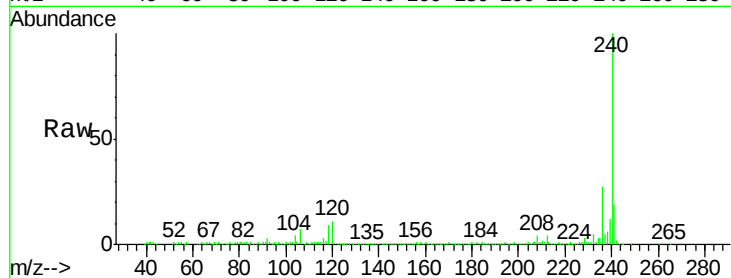
Tot Ion:240 Resp: 287577

Ion Ratio Lower Upper

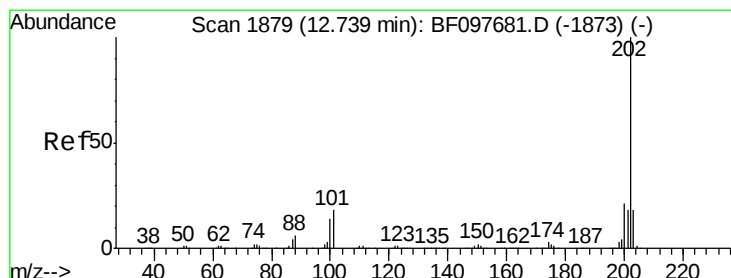
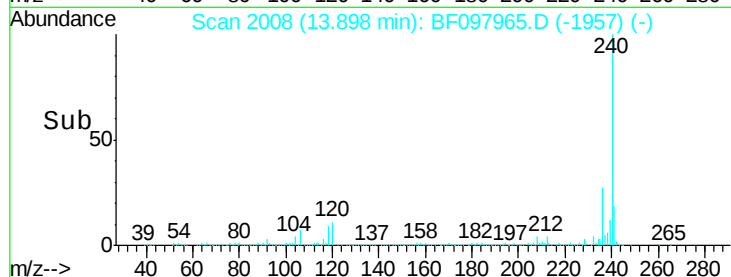
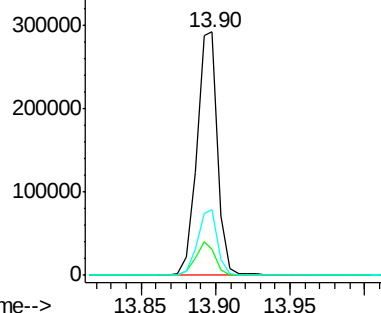
240 100

120 10.8 5.8 8.8#

236 26.8 20.5 30.7



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



#77

Pyrene

Concen: 2.97 ng

RT: 12.70 min Scan# 1804

Delta R.T. -0.01 min

Lab File: BF097965.D

Acq: 22 Aug 2017 20:38

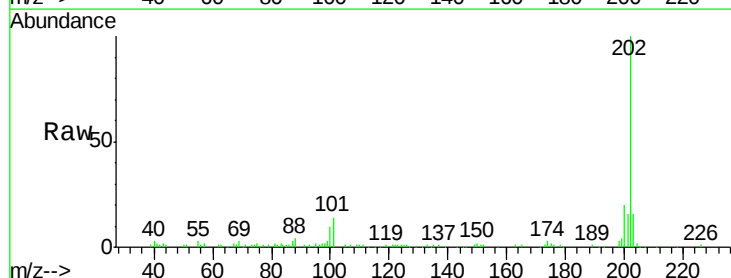
Tgt Ion:202 Resp: 69889

Ion Ratio Lower Upper

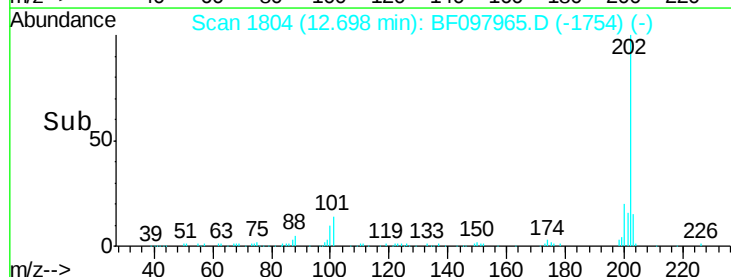
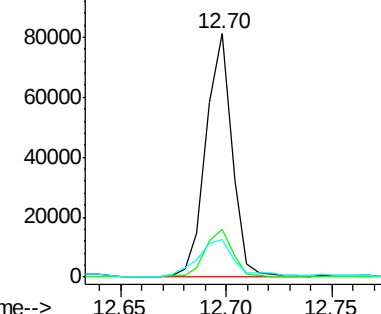
202 100

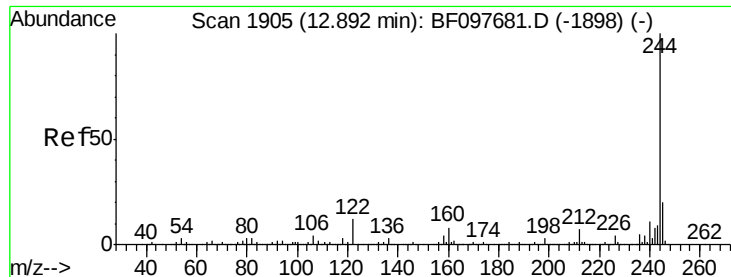
200 19.7 17.6 26.4

203 15.6 14.4 21.6



Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 200.00 (199.70 to 200.70): E  
Ion 203.00 (202.70 to 203.70): E

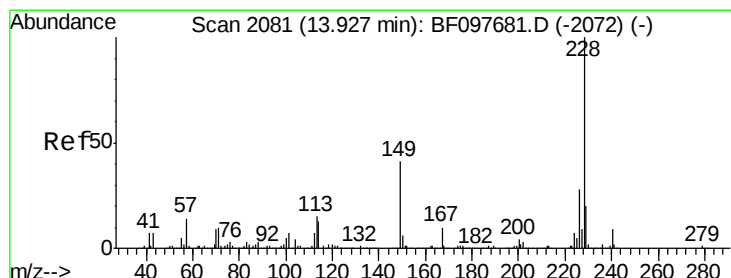
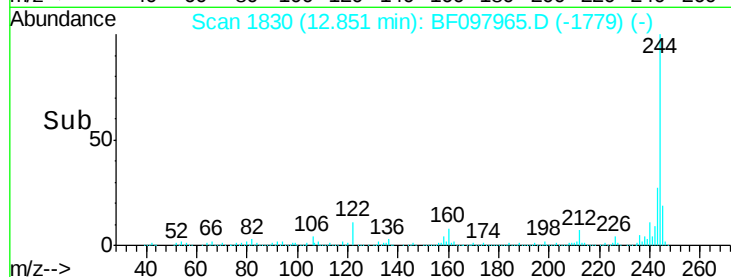
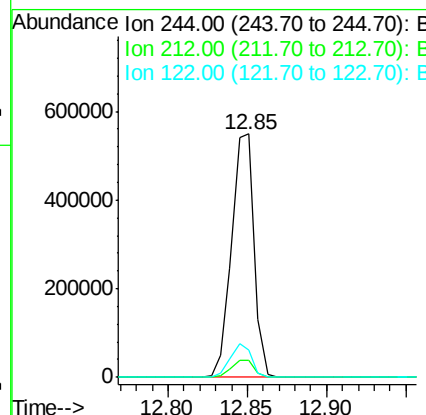
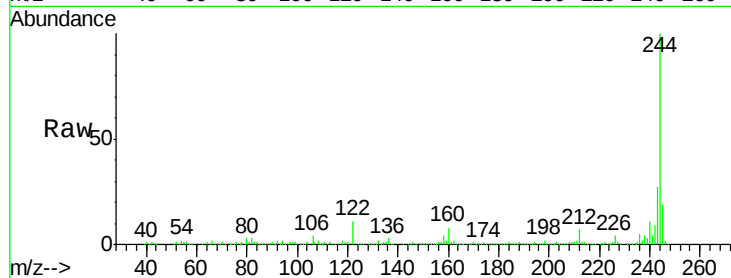




#78  
 Terphenyl-d14  
 Concen: 39.36 ng  
 RT: 12.85 min Scan# 1830  
 Delta R.T. 0.00 min  
 Lab File: BF097965.D  
 Acq: 22 Aug 2017 20:38

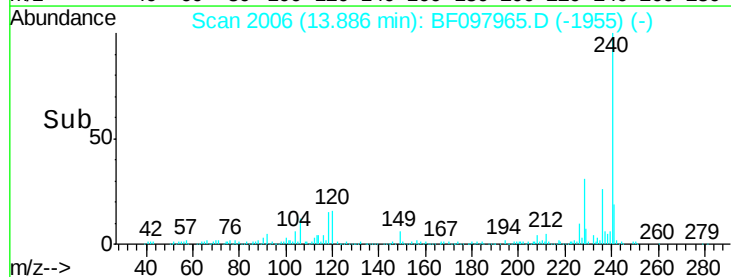
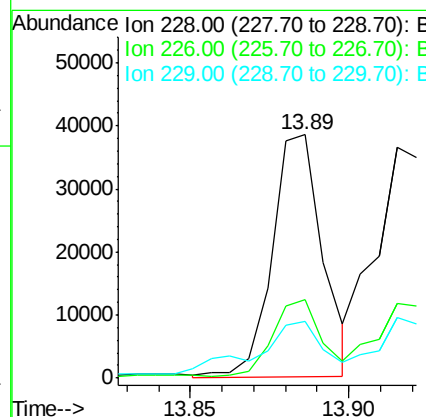
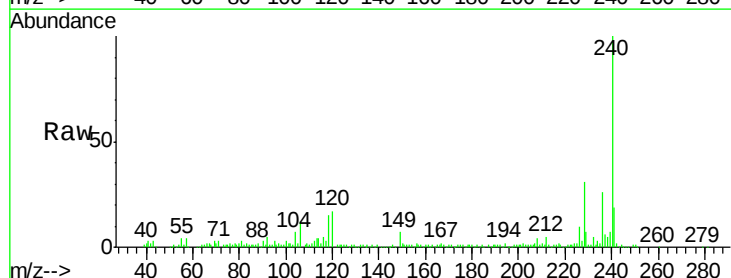
Instrument :  
 BNA\_F  
 ClientSampleId :  
 SASP2P-TP-106-E(0-5)COMP

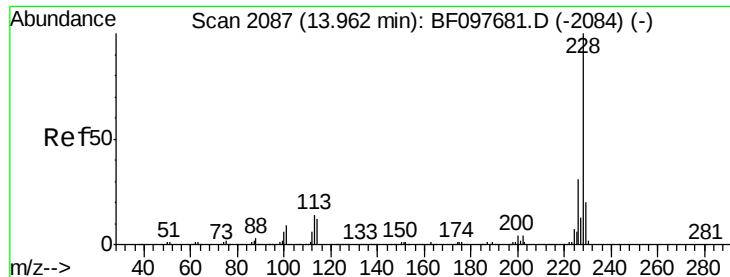
Tot Ion:244 Resp: 542731  
 Ion Ratio Lower Upper  
 244 100  
 212 7.1 6.0 9.0  
 122 11.3 10.3 15.5



#80  
 Benzo(a)anthracene  
 Concen: 2.48 ng  
 RT: 13.89 min Scan# 2006  
 Delta R.T. 0.00 min  
 Lab File: BF097965.D  
 Acq: 22 Aug 2017 20:38

Tgt Ion:228 Resp: 42741  
 Ion Ratio Lower Upper  
 228 100  
 226 32.4 22.6 33.8  
 229 23.3 16.3 24.5

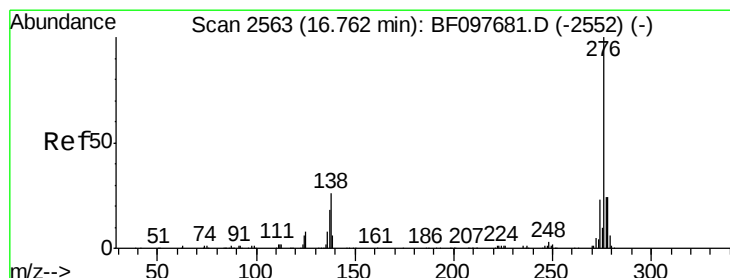
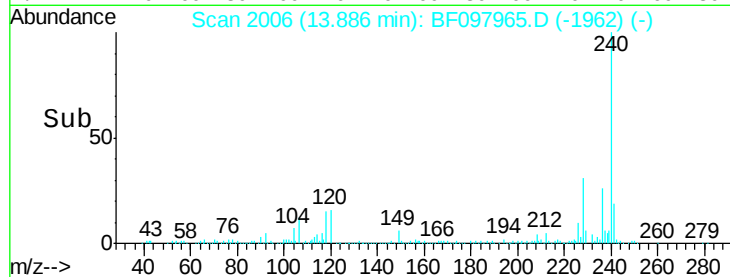
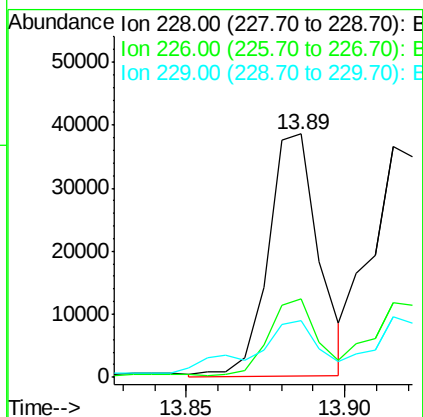
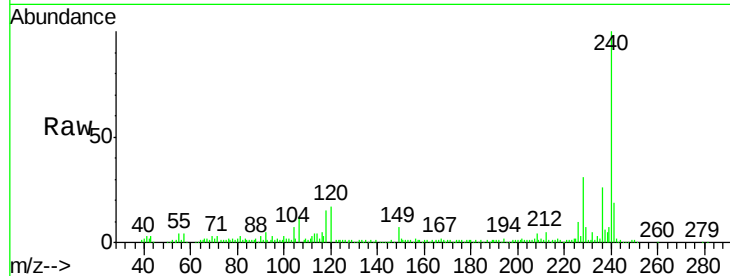




#82  
Chrysene  
Concen: 2.49 ng  
RT: 13.89 min Scan# 2006  
Delta R.T. -0.04 min  
Lab File: BF097965.D  
Acq: 22 Aug 2017 20:38

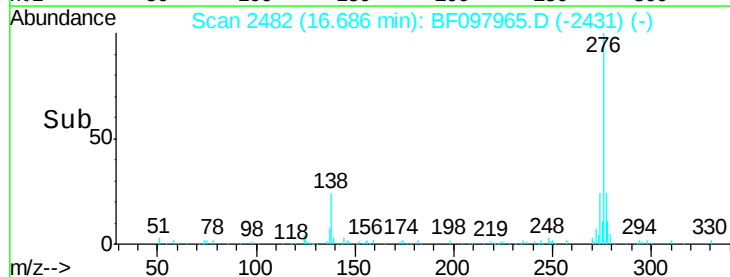
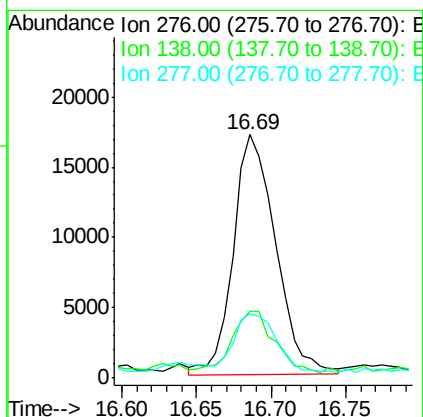
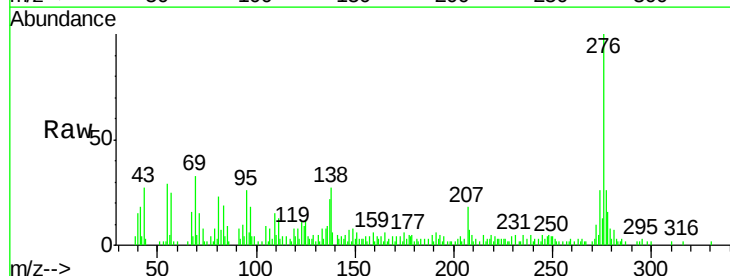
Instrument :  
BNA\_F  
ClientSampleId :  
SASP2P-TP-106-E(0-5)COMP

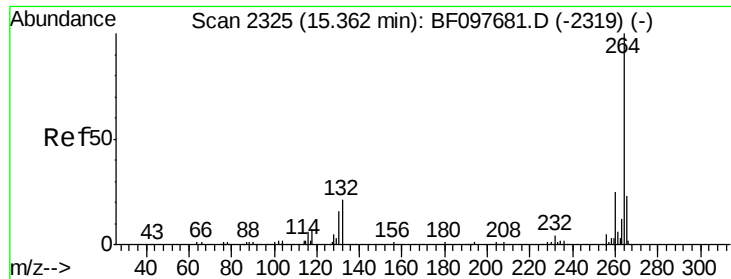
Tot Ion:228 Resp: 42741  
Ion Ratio Lower Upper  
228 100  
226 32.4 24.9 37.3  
229 23.3 15.8 23.6



#85  
Indeno(1,2,3-cd)pyrene  
Concen: 2.70 ng  
RT: 16.69 min Scan# 2482  
Delta R.T. 0.00 min  
Lab File: BF097965.D  
Acq: 22 Aug 2017 20:38

Tgt Ion:276 Resp: 34016  
Ion Ratio Lower Upper  
276 100  
138 25.2 27.8 41.6#  
277 24.8 20.2 30.4

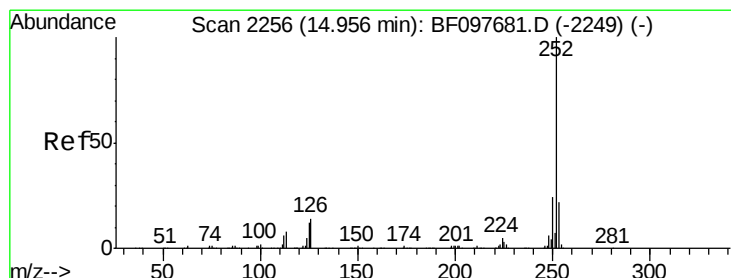
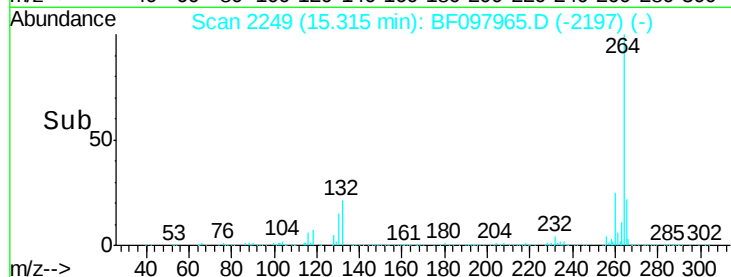
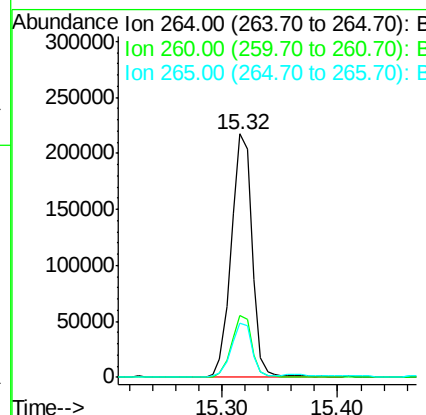
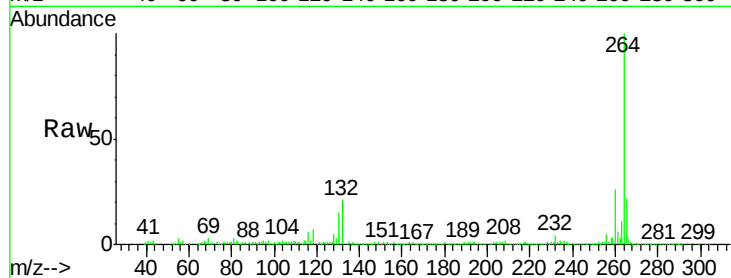




#86  
Pervlene-d12  
Concen: 20.00 ng  
RT: 15.32 min Scan# 2249  
Delta R.T. 0.01 min  
Lab File: BF097965.D  
Acq: 22 Aug 2017 20:38

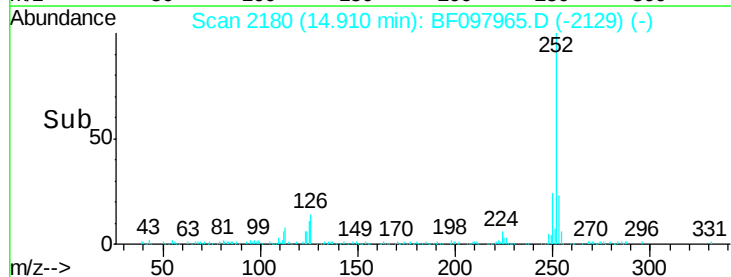
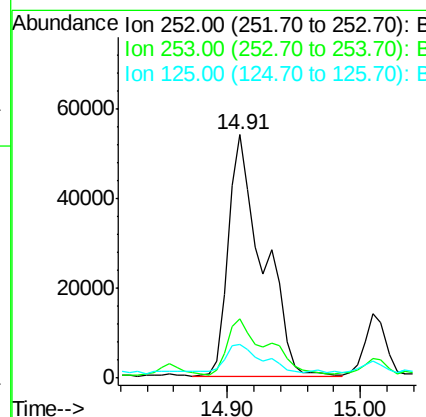
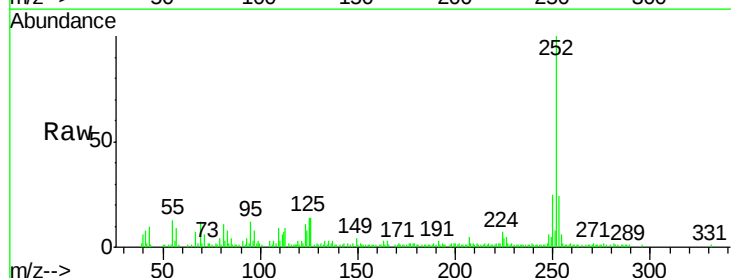
Instrument :  
BNA\_F  
ClientSampleId :  
SASP2P-TP-106-E(0-5)COMP

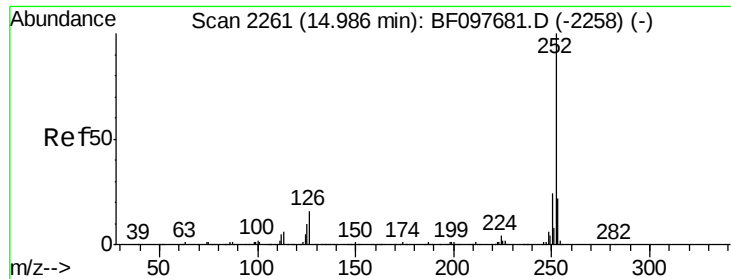
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 25.6  | 19.5  | 29.3  |
| 265     | 22.3  | 17.2  | 25.8  |



#87  
Benzo(b)fluoranthene  
Concen: 5.69 ng  
RT: 14.91 min Scan# 2180  
Delta R.T. 0.00 min  
Lab File: BF097965.D  
Acq: 22 Aug 2017 20:38

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.3  | 18.1  | 27.1  |
| 125     | 13.7  | 9.8   | 14.8  |





#88

Benzo(k)fluoranthene

Concen: 6.05 ng

RT: 14.91 min Scan# 2180

Delta R.T. -0.03 min

Lab File: BF097965.D

Acq: 22 Aug 2017 20:38

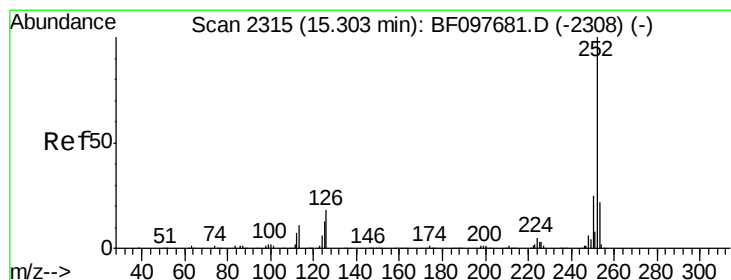
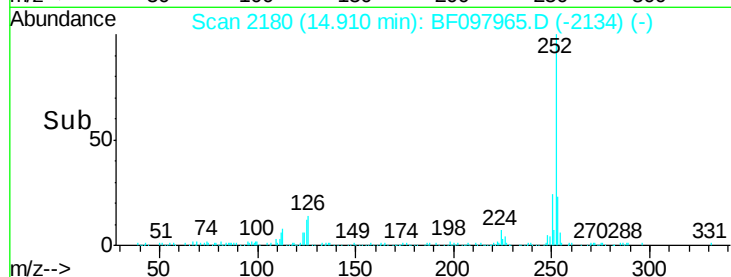
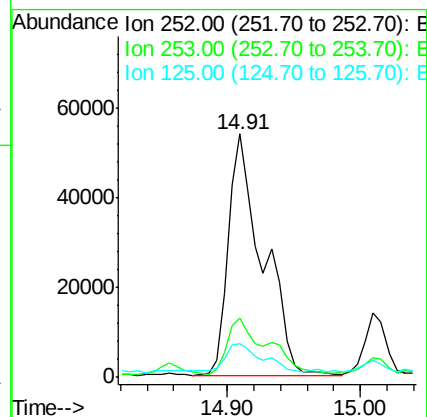
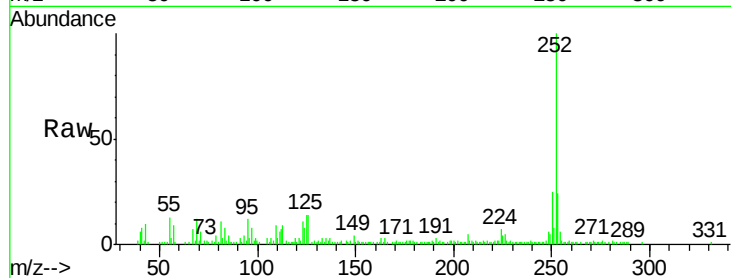
Instrument :

BNA\_F

ClientSampleId :

SASP2P-TP-106-E(0-5)COMP

|             |       |           |
|-------------|-------|-----------|
| Tot Ion:252 | Resp: | 96814     |
| Ion Ratio   | Lower | Upper     |
| 252         | 100   |           |
| 253         | 24.3  | 18.4 27.6 |
| 125         | 13.7  | 13.1 19.7 |



#89

Benzo(a)pyrene

Concen: 4.22 ng

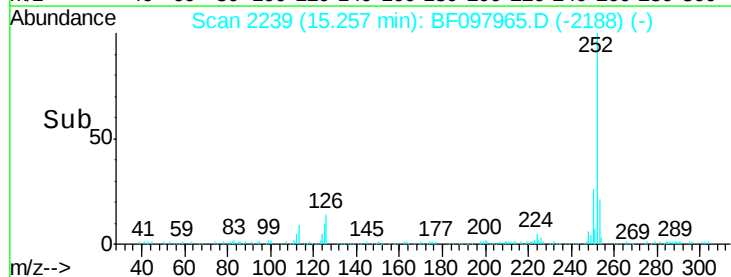
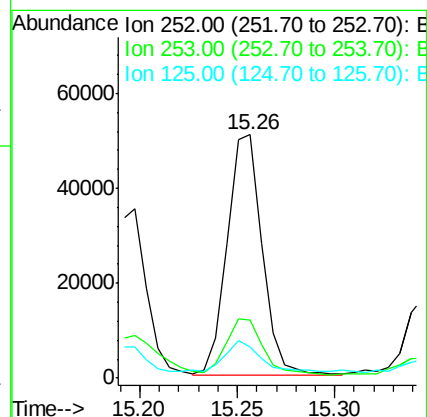
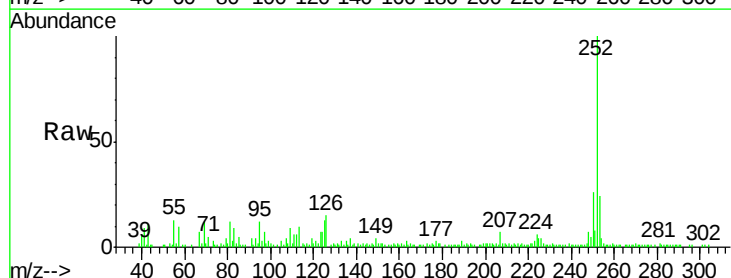
RT: 15.26 min Scan# 2239

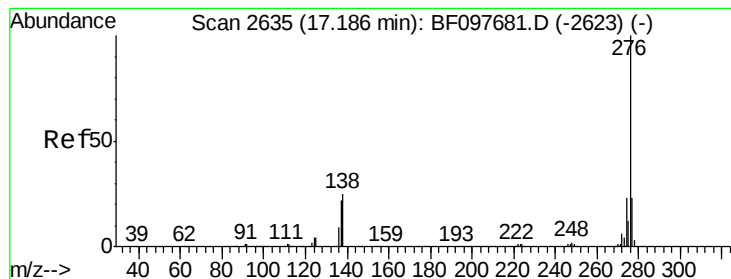
Delta R.T. 0.00 min

Lab File: BF097965.D

Acq: 22 Aug 2017 20:38

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:252 | Resp: | 63574     |
| Ion Ratio   | Lower | Upper     |
| 252         | 100   |           |
| 253         | 23.8  | 17.5 26.3 |
| 125         | 12.9  | 11.0 16.4 |





#91  
 Benzo(a,h,i)perylene  
 Concen: 2.71 ng  
 RT: 17.10 min Scan# 2553  
 Delta R.T. -0.01 min  
 Lab File: BF097965.D  
 Acq: 22 Aug 2017 20:38

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SASP2P-TP-106-E(0-5)COMP

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 26.1  | 18.6  | 28.0  |
| 138     | 26.2  | 25.4  | 38.0  |

