

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE122018\  
 Data File : BE098534.D  
 Acq On : 20 Dec 2018 12:01  
 Operator : SJ/JU  
 Sample : J6319-18  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :

Quant Time: Dec 20 13:15:47 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE121018.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Dec 10 14:59:55 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.85  | 152  | 408      | 0.40 | ng    | -0.01    |
| 7) Naphthalene-d8         | 10.65 | 136  | 2012     | 0.40 | ng    | -0.01    |
| 13) Acenaphthene-d10      | 14.51 | 164  | 1904     | 0.40 | ng    | -0.02    |
| 19) Phenanthrene-d10      | 17.26 | 188  | 5631     | 0.40 | ng    | -0.02    |
| 27) Chrysene-d12          | 21.45 | 240  | 9380     | 0.40 | ng    | -0.01    |
| 34) Perylene-d12          | 23.98 | 264  | 8667     | 0.40 | ng    | -0.03    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 4) 2-Fluorophenol           | 5.44  | 112  | 312      | 0.33 | ng    | 0.00     |
| 5) Phenol-d6                | 7.04  | 99   | 263      | 0.19 | ng    | 0.00     |
| 8) Nitrobenzene-d5          | 9.02  | 82   | 598      | 0.33 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10 | 12.25 | 152  | 1479     | 0.45 | ng    | -0.02    |
| 14) 2,4,6-Tribromophenol    | 16.01 | 330  | 461      | 0.66 | ng    | -0.01    |
| 15) 2-Fluorobiphenyl        | 13.13 | 172  | 2482     | 0.31 | ng    | -0.02    |
| 25) Fluoranthene-d10        | 19.29 | 212  | 38485    | 0.53 | ng    | -0.02    |
| 29) Terphenyl-d14           | 19.89 | 244  | 9278     | 0.41 | ng    | -0.02    |

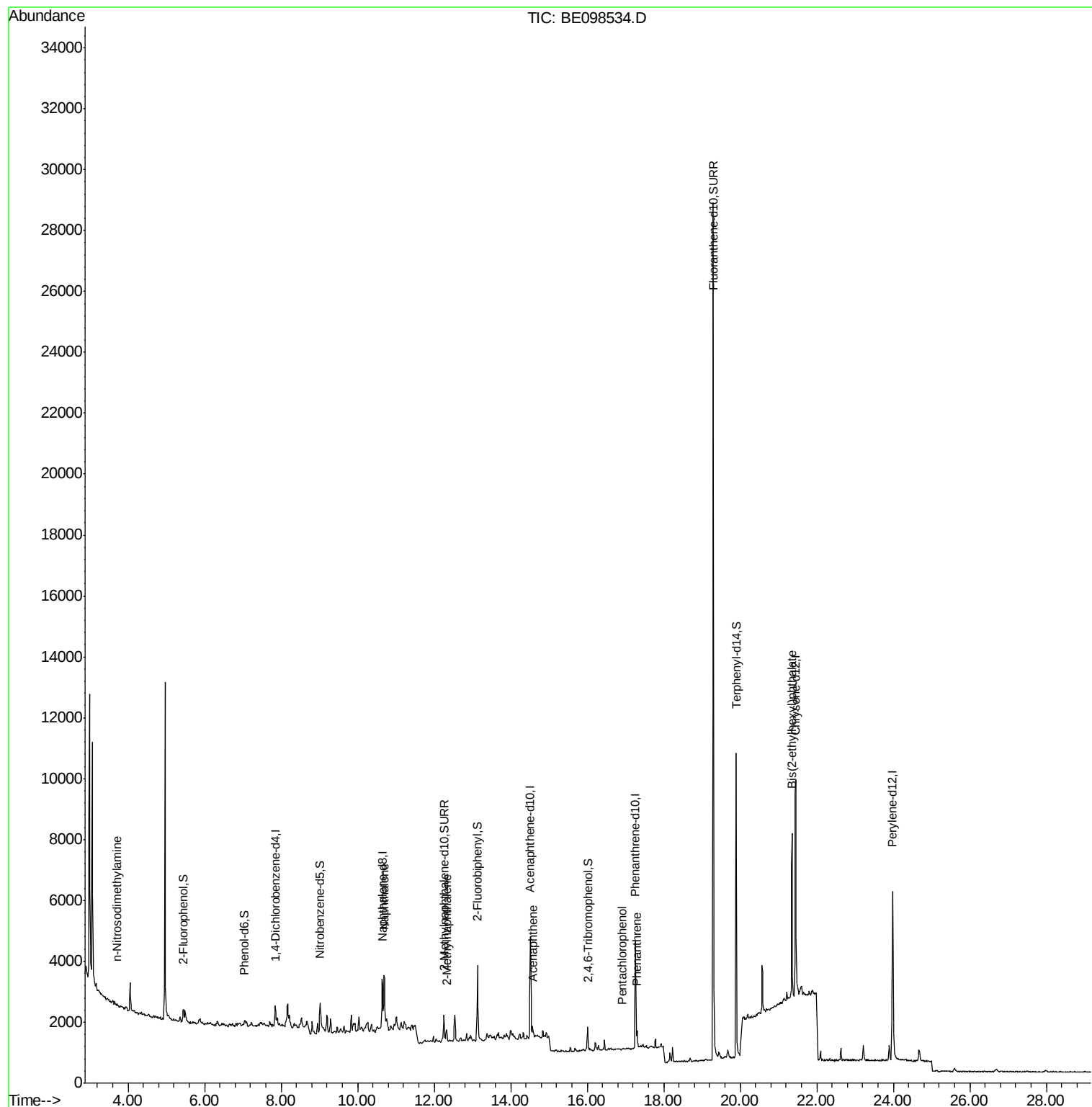
| Target Compounds               | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|--------------------------------|-------|------|----------|-------|-------|--------|
| 3) n-Nitrosodimethylamine      | 3.70  | 42   | 28       | 0.044 | ng    | # 100  |
| 9) Naphthalene                 | 10.69 | 128  | 3609     | 0.178 | ng    | # 88   |
| 12) 2-Methylnaphthalene        | 12.32 | 142  | 330      | 0.100 | ng    | # 86   |
| 17) Acenaphthene               | 14.57 | 154  | 195      | 0.036 | ng    | # 99   |
| 22) Pentachlorophenol          | 16.92 | 266  | 13       | 0.042 | ng    | # 73   |
| 23) Phenanthrene               | 17.30 | 178  | 553      | 0.040 | ng    | # 93   |
| 32) Bis(2-ethylhexyl)phthalate | 21.35 | 149  | 7509     | 0.138 | ng    | # 100  |

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

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE122018\  
Data File : BE098534.D  
Acq On : 20 Dec 2018 12:01  
Operator : SJ/JU  
Sample : J6319-18  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_E  
ClientSampleId :

Quant Time: Dec 20 13:03:53 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE121018.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Dec 10 14:59:55 2018  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.85 min Scan# 433

Delta R.T. -0.01 min

Lab File: BE098534.D

Acq: 20 Dec 2018 12:01

Instrument :

BNA\_E

ClientSampled :

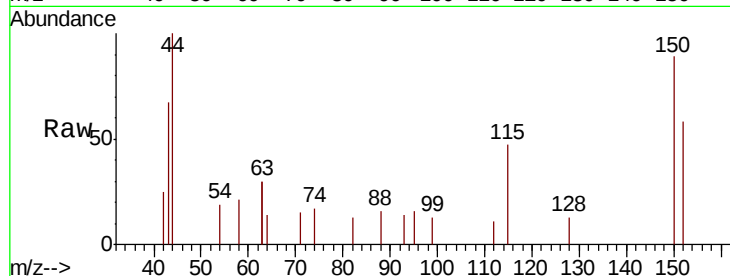
Tot Ion:152 Resp: 408

Ion Ratio Lower Upper

152 100

150 153.6 124.2 186.4

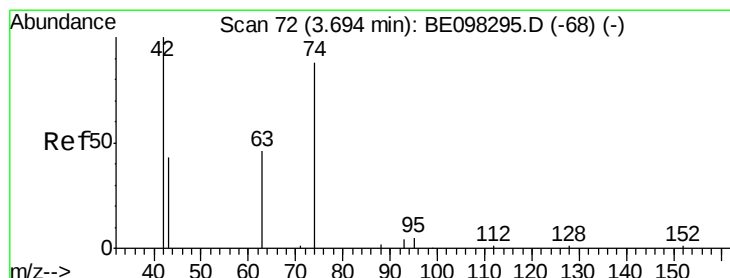
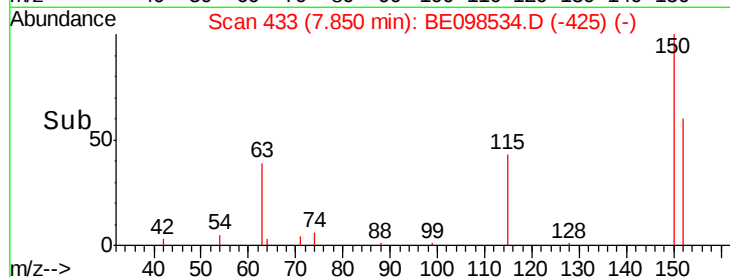
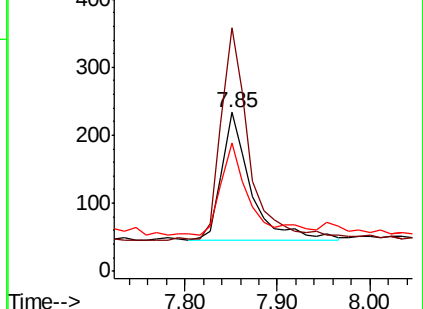
115 81.1 53.9 80.9#



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



#3

n-Nitrosodimethylamine

Concen: 0.044 ng

RT: 3.70 min Scan# 73

Delta R.T. 0.01 min

Lab File: BE098534.D

Acq: 20 Dec 2018 12:01

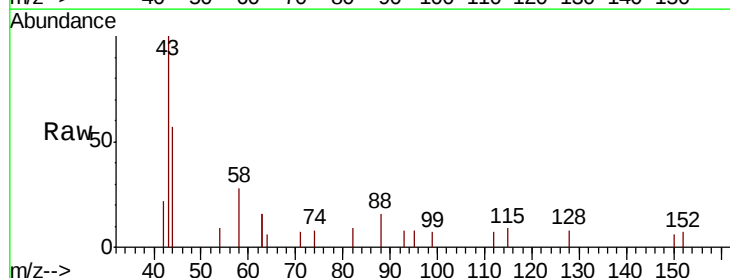
Tgt Ion: 42 Resp: 28

Ion Ratio Lower Upper

42 100

74 14.3 0.0 0.0#

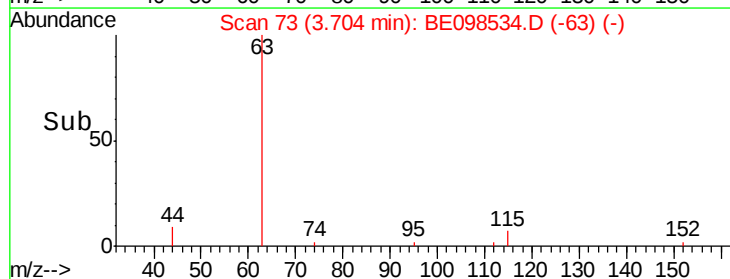
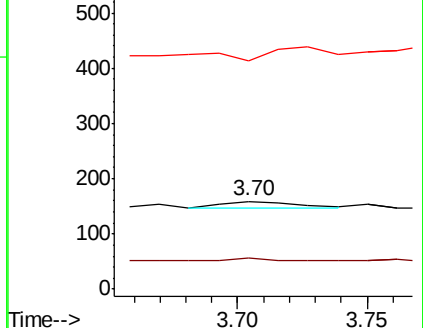
44 0.0 0.0 0.0



Abundance Ion 42.00 (41.70 to 42.70): BE0

Ion 74.00 (73.70 to 74.70): BE0

Ion 44.00 (43.70 to 44.70): BE0





#4

2-Fluorophenol

Concen: 0.327 ng

RT: 5.44 min Scan# 224

Delta R.T. -0.00 min

Lab File: BE098534.D

Acq: 20 Dec 2018 12:01

Instrument :

BNA\_E

ClientSampleId :

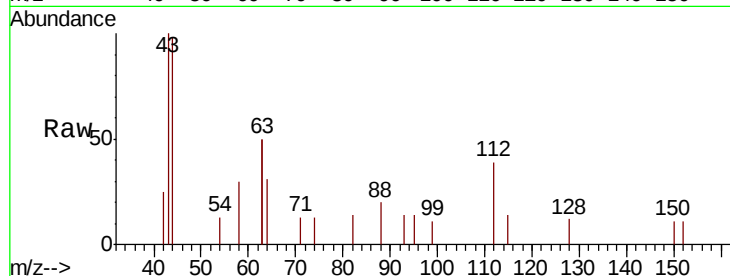
Tot Ion: 112 Resp: 312

Ion Ratio Lower Upper

112 100

64 77.6 59.8 89.8

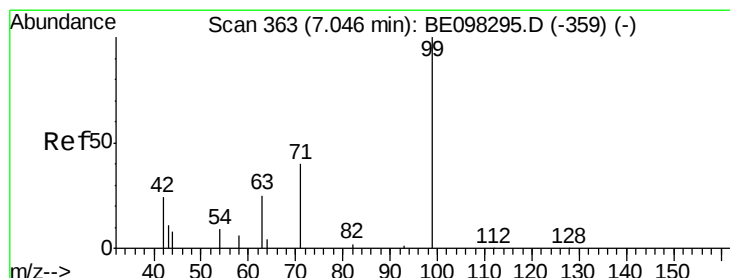
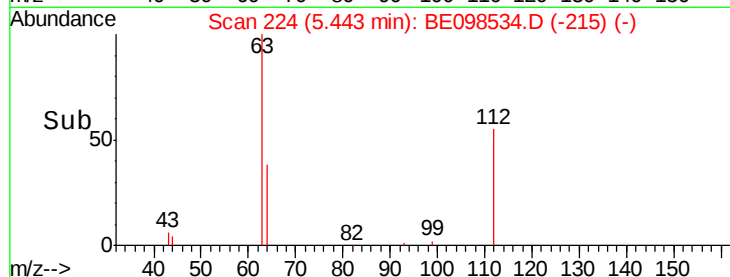
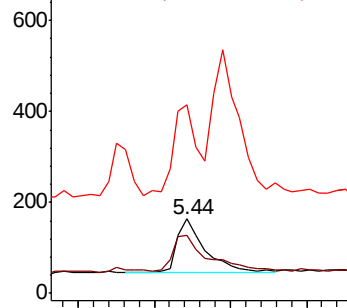
63 146.5 133.7 200.5



Abundance Ion 112.00 (111.70 to 112.70): BE0

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0



#5

Phenol-d6

Concen: 0.194 ng

RT: 7.04 min Scan# 363

Delta R.T. -0.00 min

Lab File: BE098534.D

Acq: 20 Dec 2018 12:01

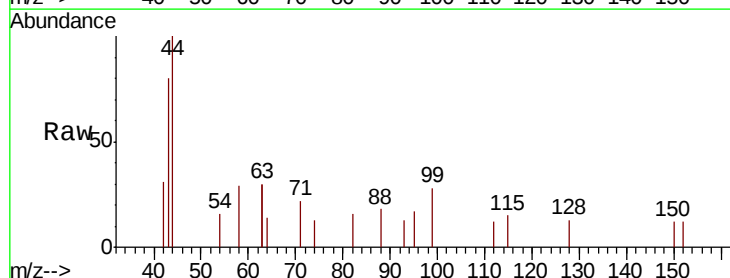
Tgt Ion: 99 Resp: 263

Ion Ratio Lower Upper

99 100

42 36.1 26.3 39.5

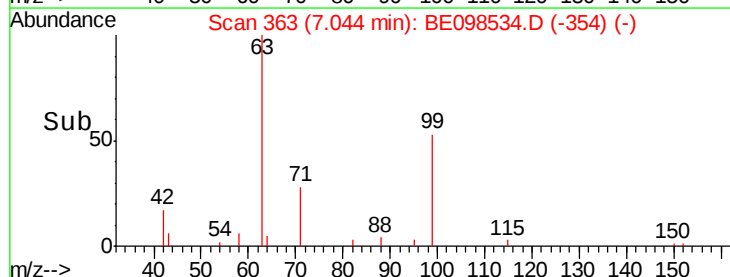
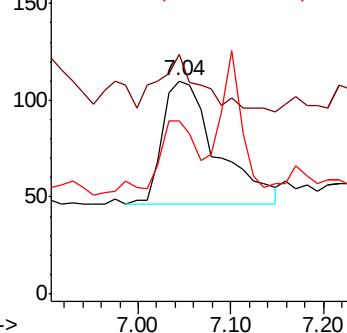
71 41.4 33.6 50.4



Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.65 min Scan# 653

Delta R.T. -0.01 min

Lab File: BE098534.D

Acq: 20 Dec 2018 12:01

Instrument :

BNA\_E

ClientSampled :

Tot Ion:136 Resp: 2012

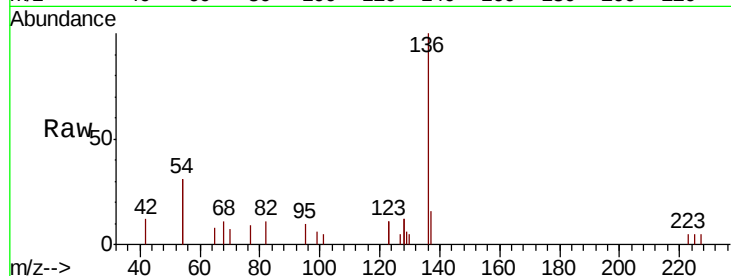
Ion Ratio Lower Upper

136 100

137 16.0 9.2 13.8#

54 61.4 28.4 42.6#

68 11.4 5.4 8.0#

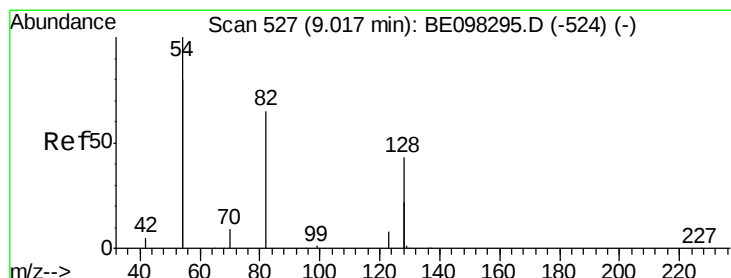
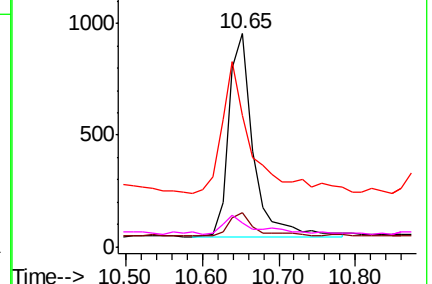
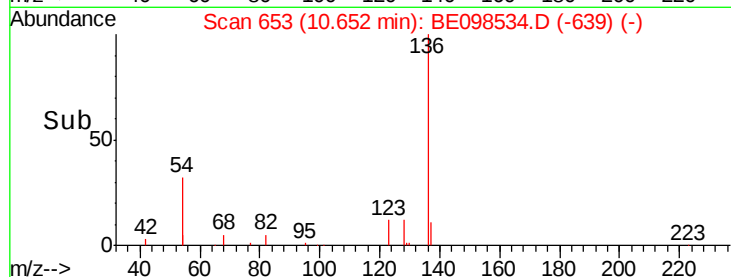


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0

Ion 68.00 (67.70 to 68.70): BE0



#8

Nitrobenzene-d5

Concen: 0.327 ng

RT: 9.02 min Scan# 527

Delta R.T. -0.00 min

Lab File: BE098534.D

Acq: 20 Dec 2018 12:01

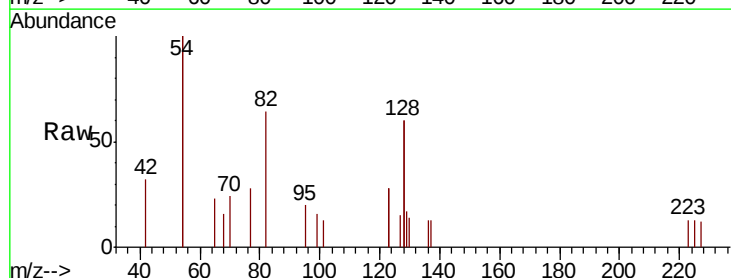
Tgt Ion: 82 Resp: 598

Ion Ratio Lower Upper

82 100

128 189.7 102.4 153.6#

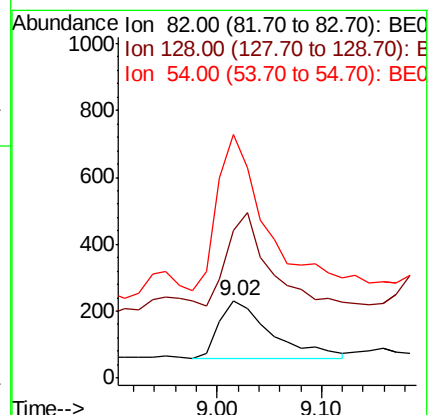
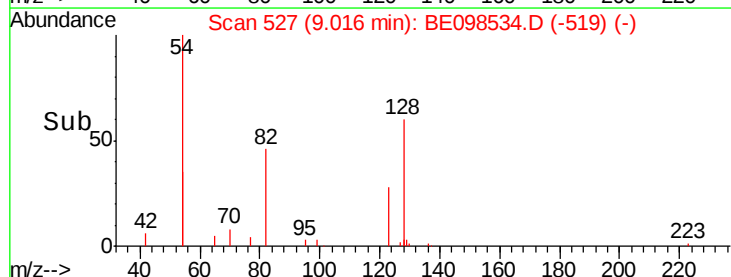
54 313.8 221.8 332.8

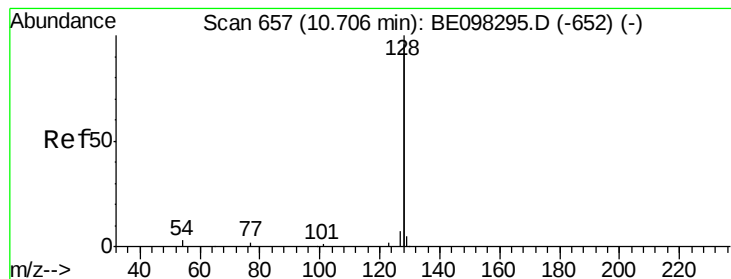


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#9

Naphthalene

Concen: 0.178 ng

RT: 10.69 min Scan# 656

Delta R.T. -0.01 min

Lab File: BE098534.D

Acq: 20 Dec 2018 12:01

Instrument :

BNA\_E

ClientSampleId :

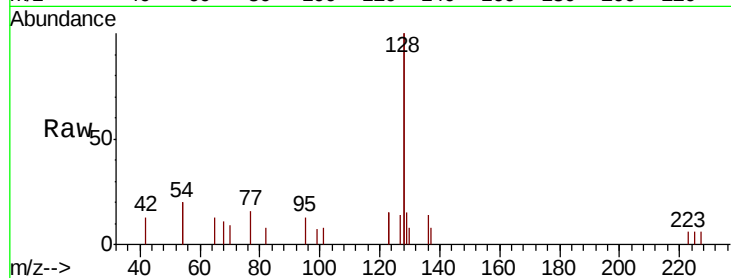
Tot Ion:128 Resp: 3609

Ion Ratio Lower Upper

128 100

129 7.7 2.5 3.7#

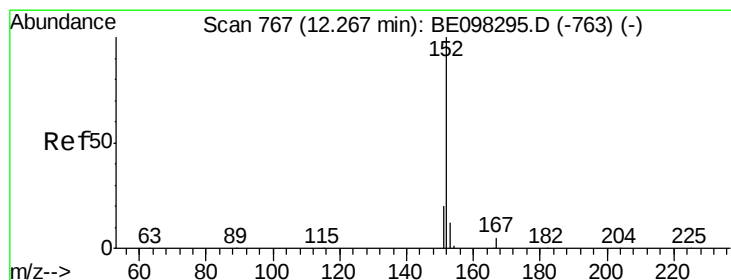
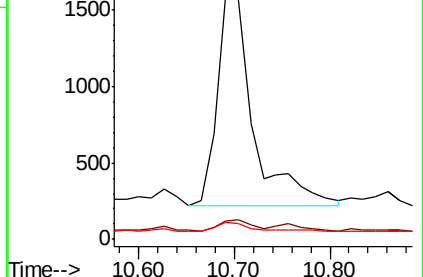
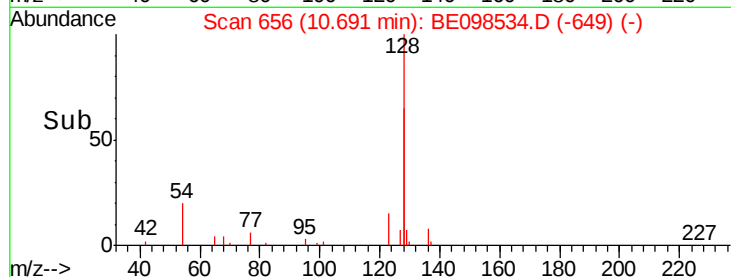
127 6.8 2.7 4.1#



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



#11

2-Methylnaphthalene-d10

Concen: 0.452 ng

RT: 12.25 min Scan# 766

Delta R.T. -0.02 min

Lab File: BE098534.D

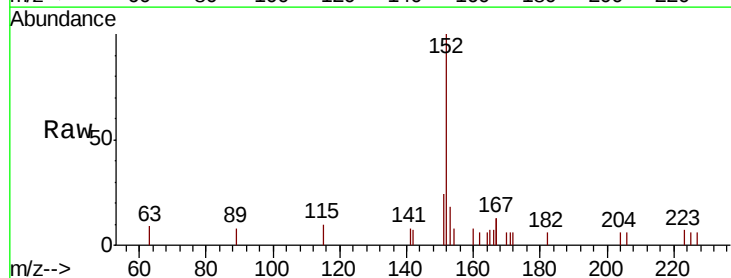
Acq: 20 Dec 2018 12:01

Tgt Ion:152 Resp: 1479

Ion Ratio Lower Upper

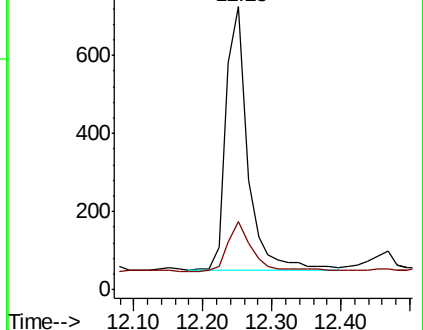
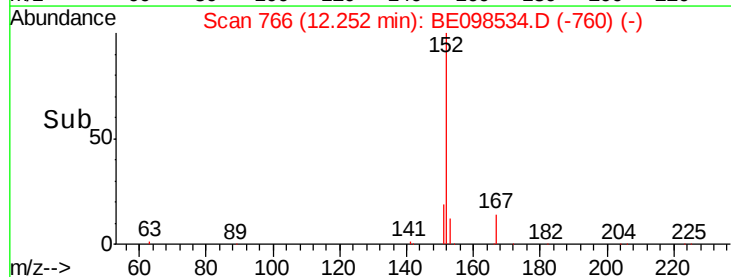
152 100

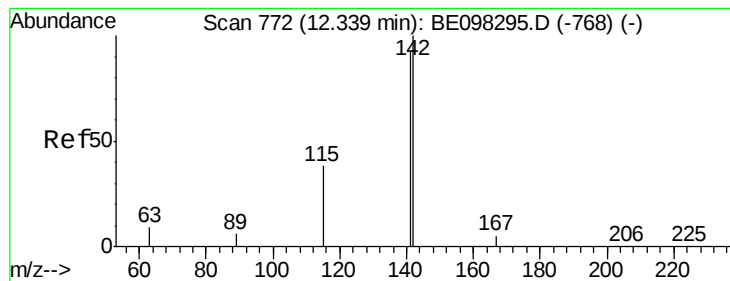
151 20.4 16.2 24.4



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

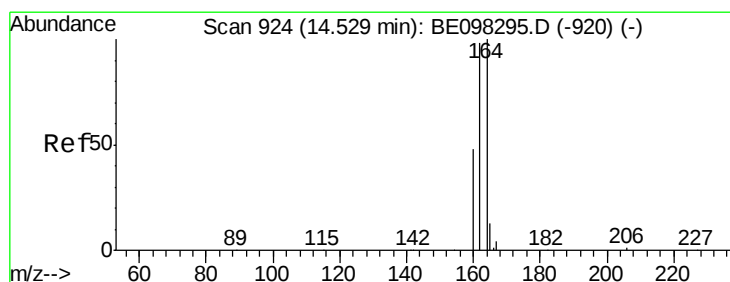
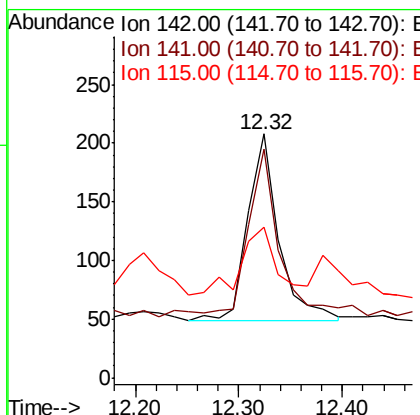
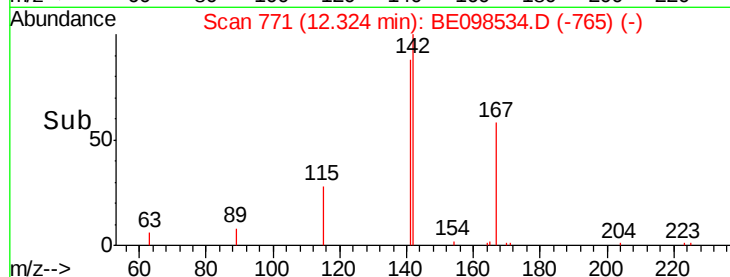
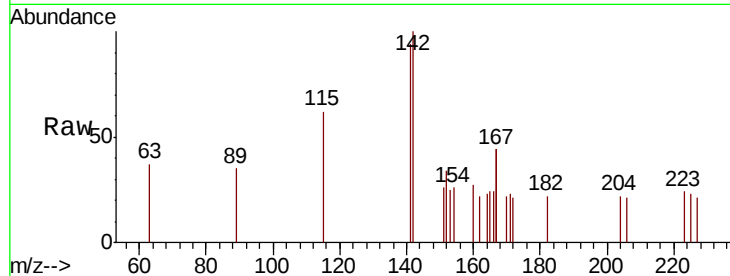




#12  
2-Methylnaphthalene  
Concen: 0.100 ng  
RT: 12.32 min Scan# 771  
Delta R.T. -0.02 min  
Lab File: BE098534.D  
Acq: 20 Dec 2018 12:01

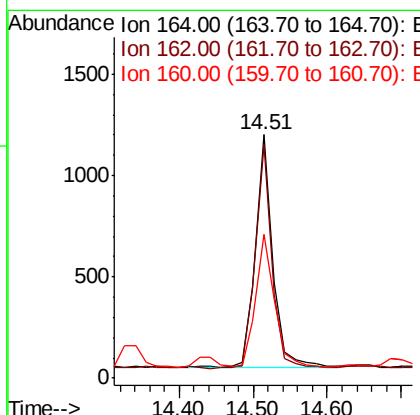
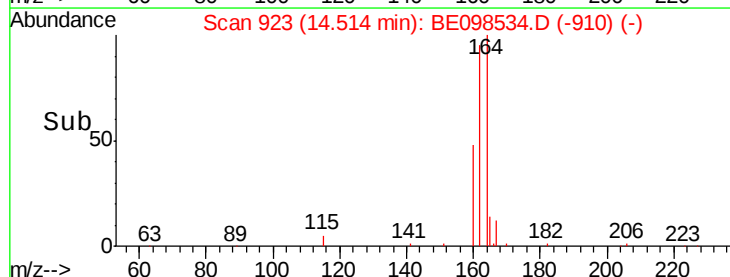
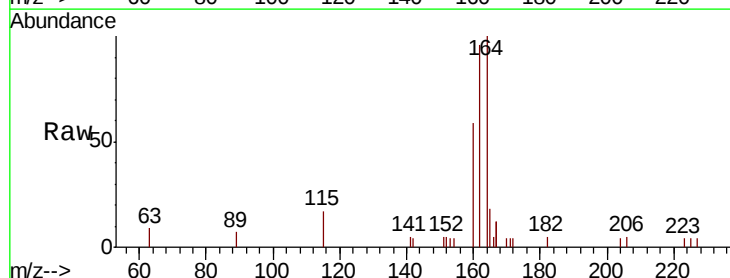
Instrument :  
BNA\_E  
ClientSampleId :

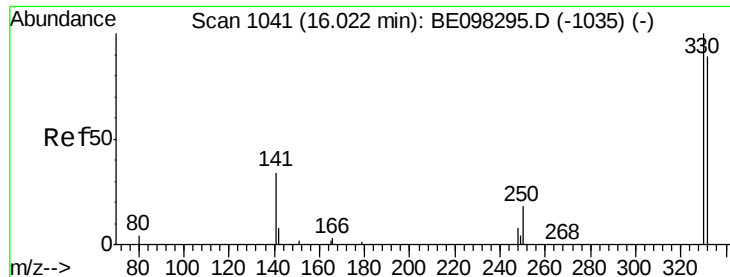
Tot Ion:142 Resp: 330  
Ion Ratio Lower Upper  
142 100  
141 93.8 71.0 106.6  
115 61.5 32.2 48.2#



#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.51 min Scan# 923  
Delta R.T. -0.02 min  
Lab File: BE098534.D  
Acq: 20 Dec 2018 12:01

Tgt Ion:164 Resp: 1904  
Ion Ratio Lower Upper  
164 100  
162 95.8 77.6 116.4  
160 59.2 36.0 54.0#

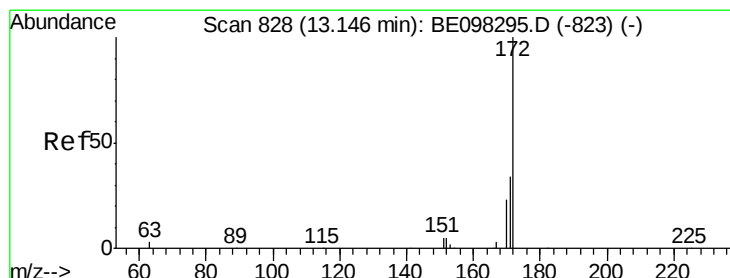
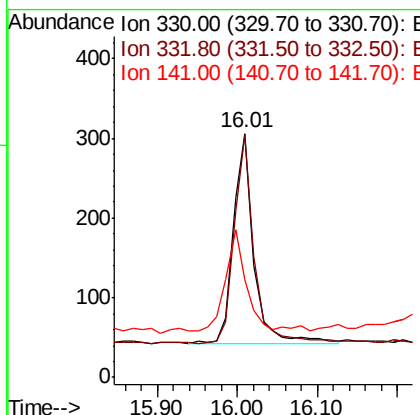
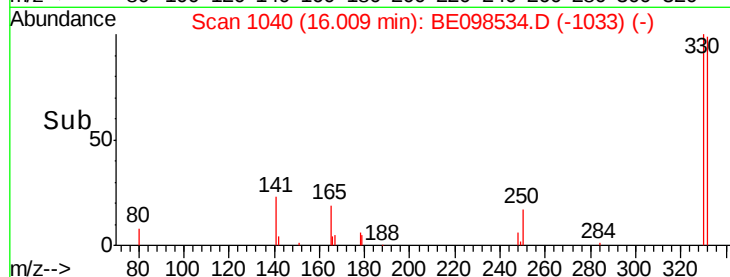
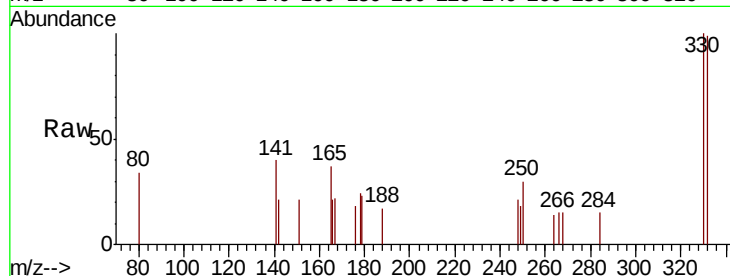




#14  
 2,4,6-Tribromophenol  
 Concen: 0.659 ng  
 RT: 16.01 min Scan# 1040  
 Delta R.T. -0.01 min  
 Lab File: BE098534.D  
 Acq: 20 Dec 2018 12:01

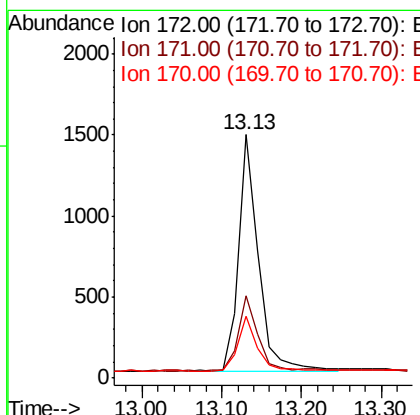
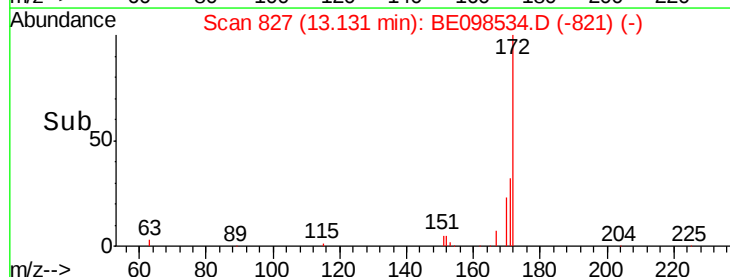
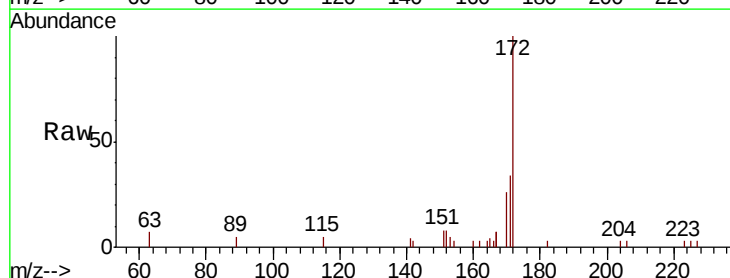
Instrument :  
 BNA\_E  
 ClientSampleId :

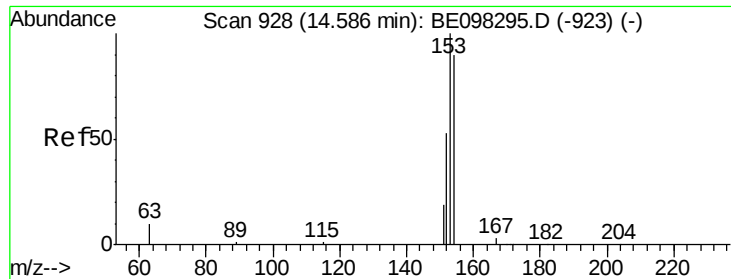
Tot Ion:330 Resp: 461  
 Ion Ratio Lower Upper  
 330 100  
 332 98.9 76.2 114.4  
 141 46.6 39.0 58.4



#15  
 2-Fluorobiphenyl  
 Concen: 0.309 ng  
 RT: 13.13 min Scan# 827  
 Delta R.T. -0.02 min  
 Lab File: BE098534.D  
 Acq: 20 Dec 2018 12:01

Tgt Ion:172 Resp: 2482  
 Ion Ratio Lower Upper  
 172 100  
 171 33.8 27.5 41.3  
 170 25.5 19.6 29.4

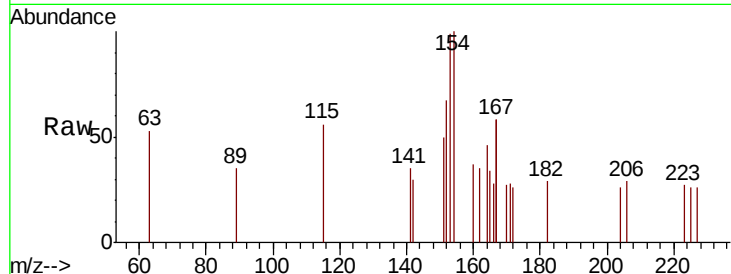




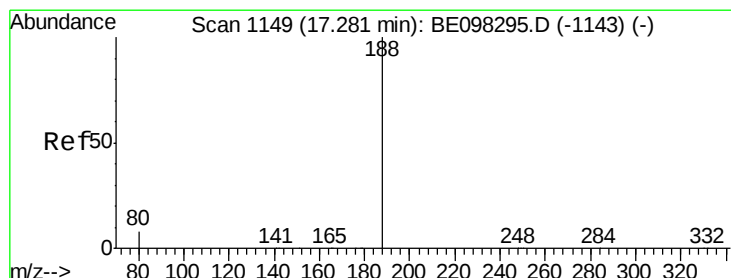
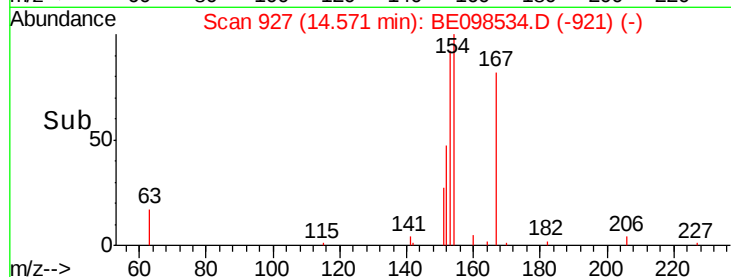
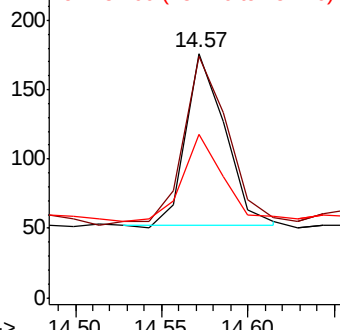
#17  
Acenaphthene  
Concen: 0.036 ng  
RT: 14.57 min Scan# 927  
Delta R.T. -0.02 min  
Lab File: BE098534.D  
Acq: 20 Dec 2018 12:01

Instrument :  
BNA\_E  
ClientSampleId :

Tot Ion:154 Resp: 195  
Ion Ratio Lower Upper  
154 100  
153 114.9 91.8 137.6  
152 53.8 45.5 68.3

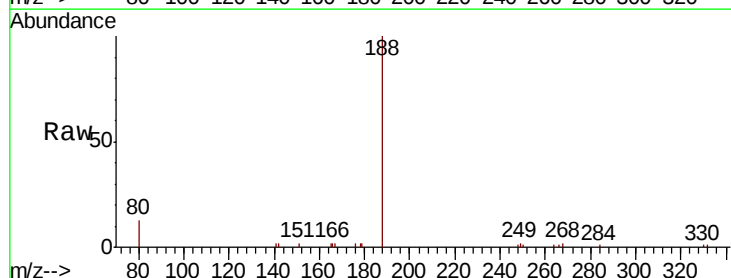


Abundance Ion 154.00 (153.70 to 154.70): E  
Ion 153.00 (152.70 to 153.70): E  
Ion 152.00 (151.70 to 152.70): E

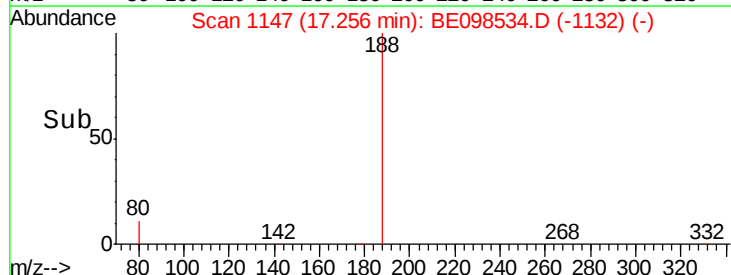
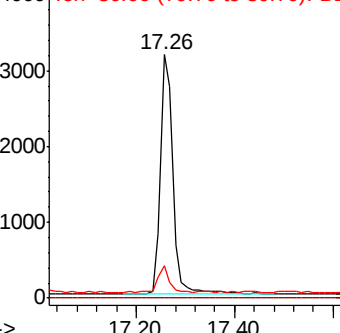


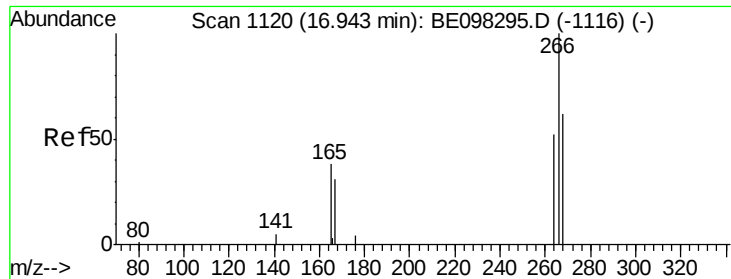
#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 17.26 min Scan# 1147  
Delta R.T. -0.02 min  
Lab File: BE098534.D  
Acq: 20 Dec 2018 12:01

Tgt Ion:188 Resp: 5631  
Ion Ratio Lower Upper  
188 100  
94 0.0 0.0 0.0  
80 13.3 7.2 10.8#



Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BE0  
Ion 80.00 (79.70 to 80.70): BE0

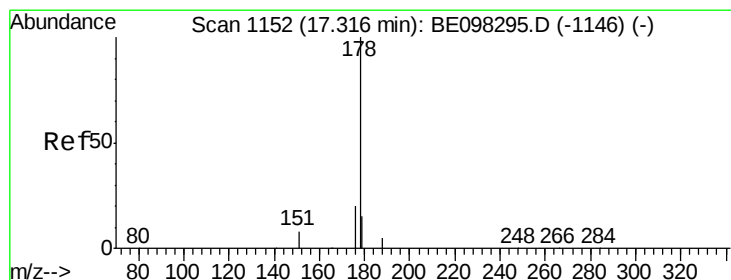
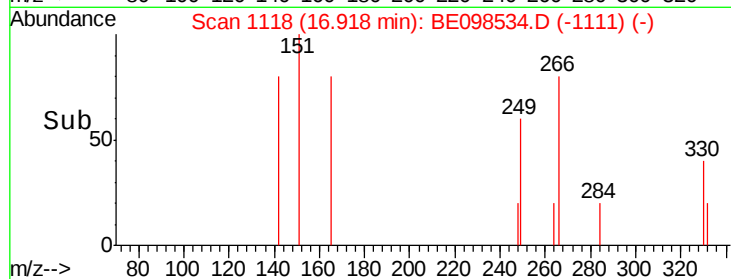
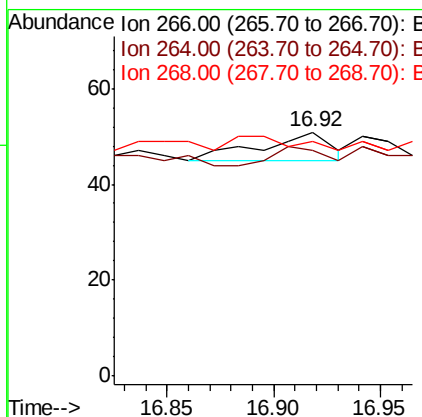
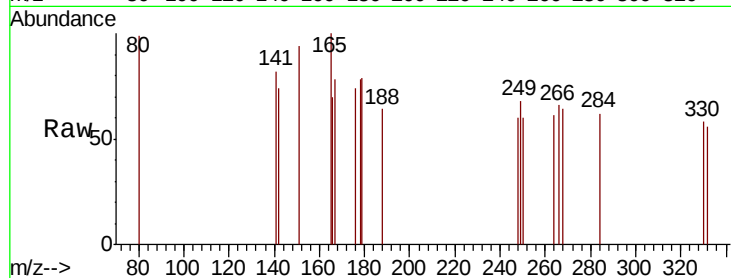




#22  
 Pentachlorophenol  
 Concen: 0.042 ng  
 RT: 16.92 min Scan# 1118  
 Delta R.T. -0.02 min  
 Lab File: BE098534.D  
 Acq: 20 Dec 2018 12:01

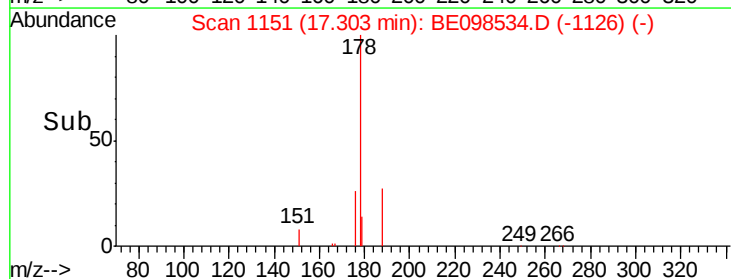
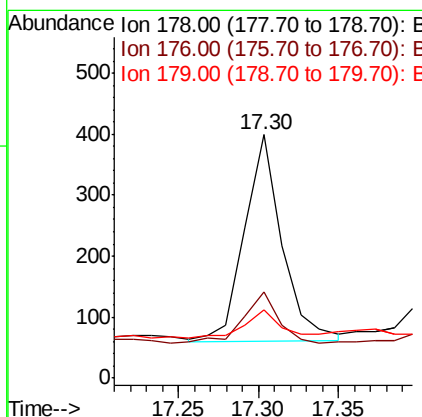
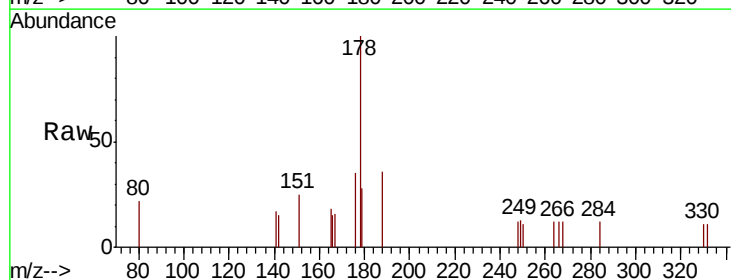
Instrument :  
 BNA\_E  
 ClientSampleId :

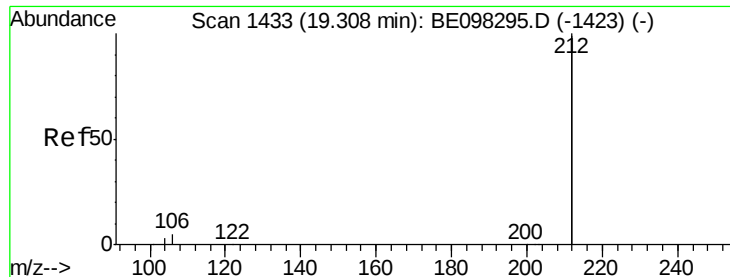
Tot Ion:266 Resp: 13  
 Ion Ratio Lower Upper  
 266 100  
 264 92.2 59.0 88.4#  
 268 96.1 55.1 82.7#



#23  
 Phenanthrene  
 Concen: 0.040 ng  
 RT: 17.30 min Scan# 1151  
 Delta R.T. -0.01 min  
 Lab File: BE098534.D  
 Acq: 20 Dec 2018 12:01

Tgt Ion:178 Resp: 553  
 Ion Ratio Lower Upper  
 178 100  
 176 24.1 15.9 23.9#  
 179 13.2 12.3 18.5





#25

Fluoranthene-d10

Concen: 0.533 ng

RT: 19.29 min Scan# 1430

Delta R.T. -0.02 min

Lab File: BE098534.D

Acq: 20 Dec 2018 12:01

Instrument :

BNA\_E

ClientSampleId :

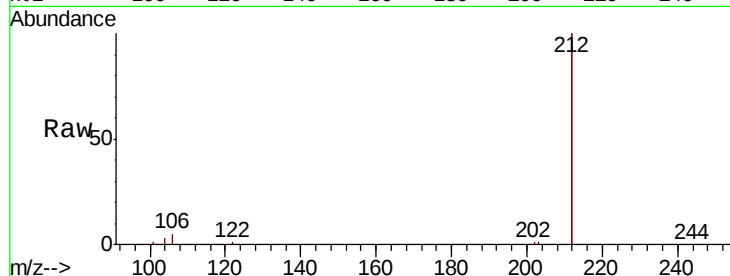
Tot Ion:212 Resp: 38485

Ion Ratio Lower Upper

212 100

106 2.3 2.2 3.2

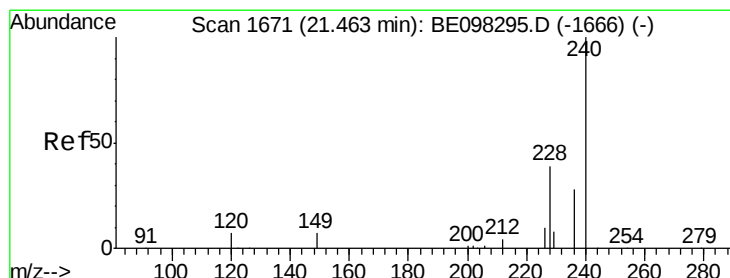
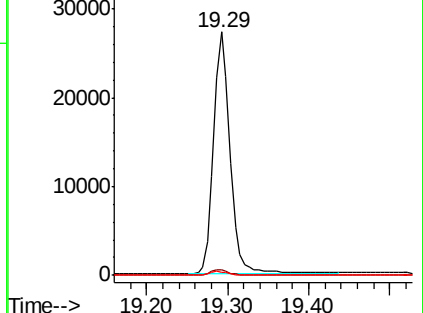
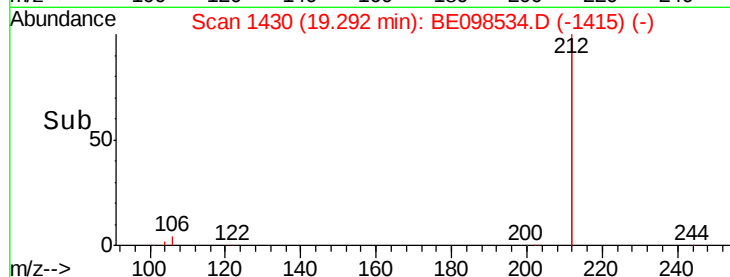
104 1.4 1.3 1.9



Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E



#27

Chrysene-d12

Concen: 0.400 ng

RT: 21.45 min Scan# 1670

Delta R.T. -0.01 min

Lab File: BE098534.D

Acq: 20 Dec 2018 12:01

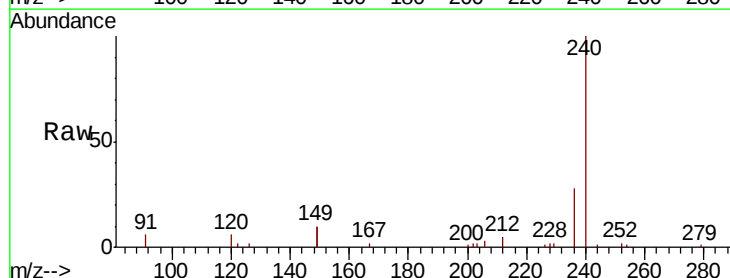
Tgt Ion:240 Resp: 9380

Ion Ratio Lower Upper

240 100

120 5.5 9.5 14.3#

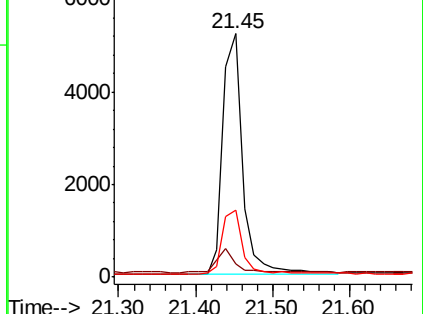
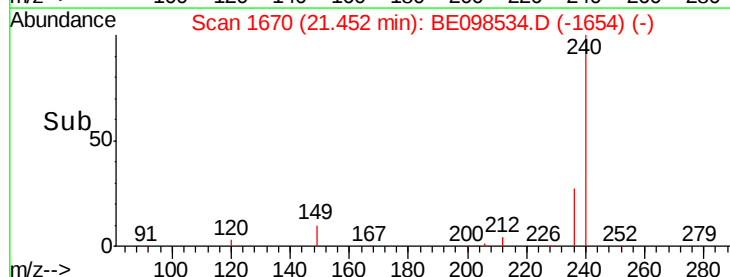
236 27.6 22.7 34.1

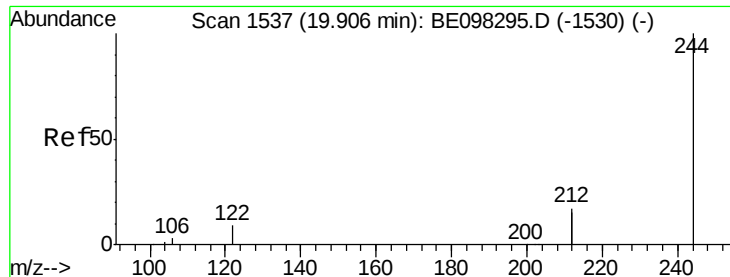


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#29

Terphenyl-d14

Concen: 0.407 ng

RT: 19.89 min Scan# 1534

Delta R.T. -0.02 min

Lab File: BE098534.D

Acq: 20 Dec 2018 12:01

Instrument :

BNA\_E

ClientSampleId :

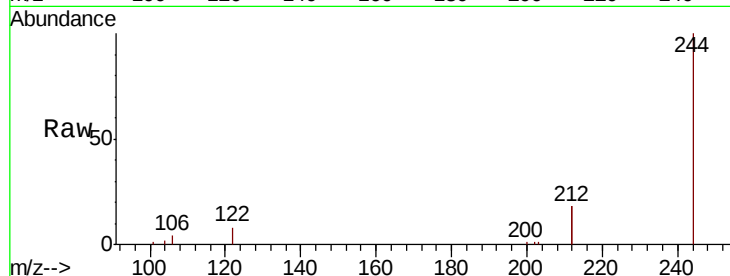
Tot Ion:244 Resp: 9278

Ion Ratio Lower Upper

244 100

212 35.2 27.4 41.0

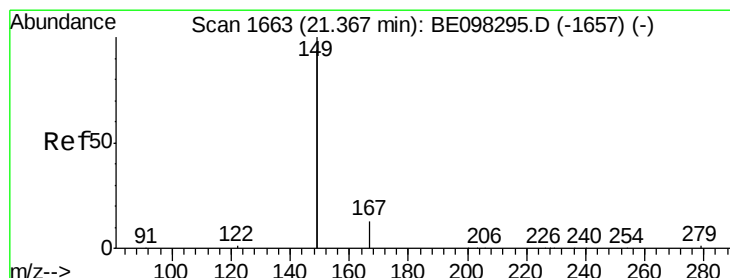
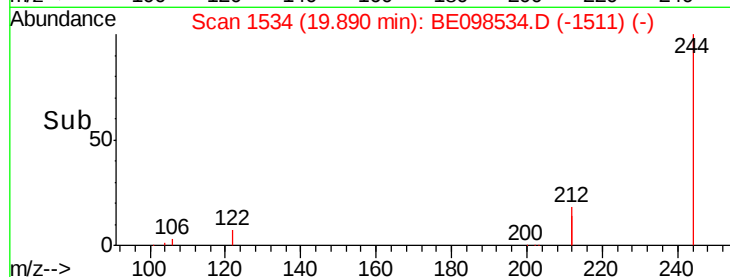
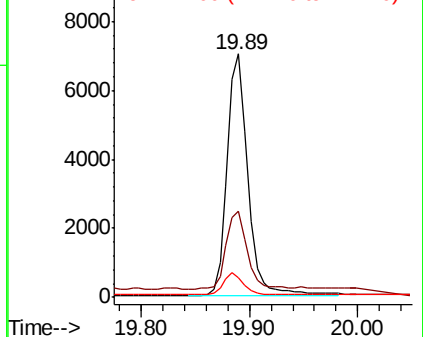
122 8.0 8.3 12.5#



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



#32

Bis(2-ethylhexyl)phthalate

Concen: 0.138 ng

RT: 21.35 min Scan# 1662

Delta R.T. -0.01 min

Lab File: BE098534.D

Acq: 20 Dec 2018 12:01

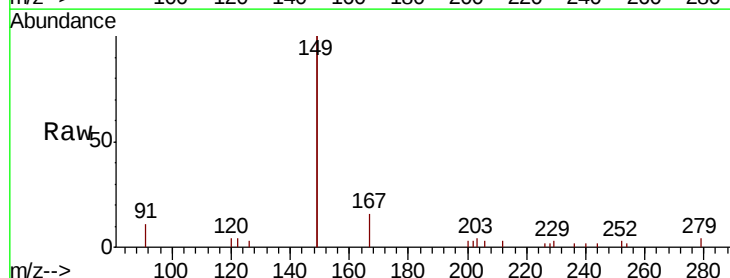
Tgt Ion:149 Resp: 7509

Ion Ratio Lower Upper

149 100

167 7.0 5.7 8.5

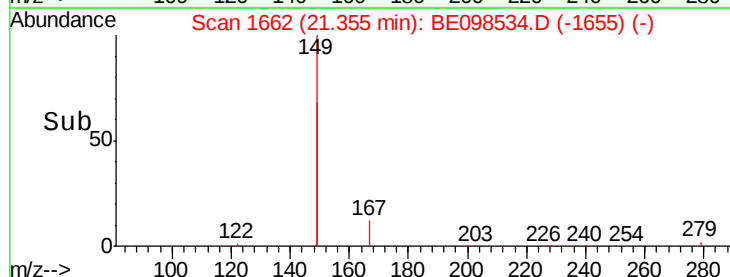
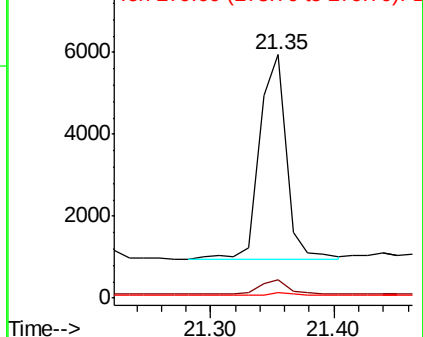
279 1.5 1.0 1.4#

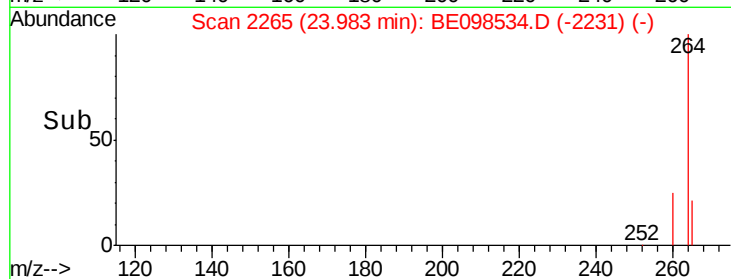
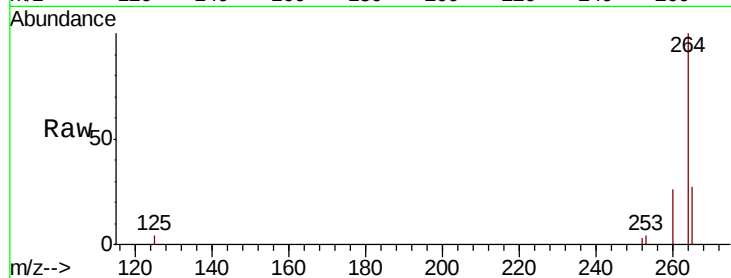
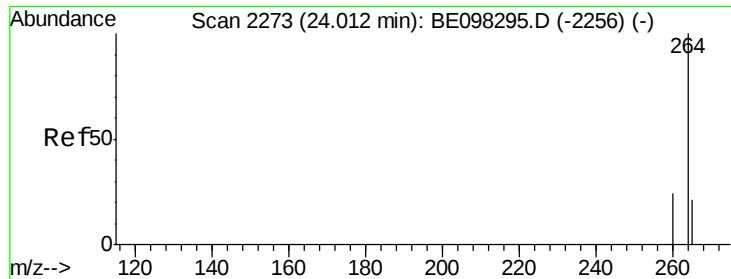


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E





#34

Pervlene-d12

Concen: 0.400 ng

RT: 23.98 min Scan# 2265

Delta R.T. -0.03 min

Lab File: BE098534.D

Acq: 20 Dec 2018 12:01

Instrument :

BNA\_E

ClientSampleId :

Tot Ion:264 Resp: 8667

Ion Ratio Lower Upper

264 100

260 26.3 20.2 30.2

265 27.0 25.2 37.8

