

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN082520\  
 Data File : BN011616.D  
 Acq On : 25 Aug 2020 15:24  
 Operator : CG/JU  
 Sample : L3768-05MSD  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 CS-3MSD

Quant Time: Aug 25 16:06:53 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN082420.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Aug 25 03:31:11 2020  
 Response via : Initial Calibration

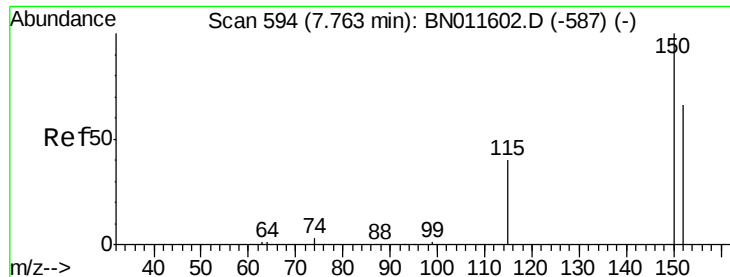
| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.76  | 152  | 2787     | 0.40 | ng    | 0.00     |
| 7) Naphthalene-d8         | 10.54 | 136  | 11663    | 0.40 | ng    | 0.00     |
| 13) Acenaphthene-d10      | 14.40 | 164  | 6990     | 0.40 | ng    | 0.00     |
| 19) Phenanthrene-d10      | 17.14 | 188  | 14840    | 0.40 | ng    | 0.00     |
| 29) Chrysene-d12          | 21.33 | 240  | 15341    | 0.40 | ng    | 0.00     |
| 36) Perylene-d12          | 23.59 | 264  | 17630    | 0.40 | ng    | 0.00     |

|                             |       |     |       |      |    |       |
|-----------------------------|-------|-----|-------|------|----|-------|
| System Monitoring Compounds |       |     |       |      |    |       |
| 4) 2-Fluorophenol           | 5.35  | 112 | 4163  | 0.47 | ng | 0.00  |
| 5) Phenol-d6                | 6.92  | 99  | 5508  | 0.44 | ng | 0.00  |
| 8) Nitrobenzene-d5          | 8.89  | 82  | 5697  | 0.56 | ng | -0.01 |
| 11) 2-Methylnaphthalene-d10 | 12.14 | 152 | 7265  | 0.33 | ng | 0.00  |
| 14) 2,4,6-Tribromophenol    | 15.88 | 330 | 1390  | 0.36 | ng | 0.00  |
| 15) 2-Fluorobiphenyl        | 13.01 | 172 | 15431 | 0.57 | ng | -0.01 |
| 27) Fluoranthene-d10        | 19.17 | 212 | 14685 | 0.30 | ng | 0.00  |
| 31) Terphenyl-d14           | 19.78 | 244 | 23540 | 0.60 | ng | 0.00  |

|                                |       |     |       |        |    |       |
|--------------------------------|-------|-----|-------|--------|----|-------|
| Target Compounds               |       |     |       | Qvalue |    |       |
| 2) 1,4-Dioxane                 | 3.29  | 88  | 1090  | 0.252  | ng | # 1   |
| 3) n-Nitrosodimethylamine      | 3.59  | 42  | 1430  | 0.314  | ng | # 100 |
| 6) bis(2-Chloroethyl)ether     | 7.18  | 93  | 2927  | 0.327  | ng | 96    |
| 9) Naphthalene                 | 10.59 | 128 | 10335 | 0.312  | ng | 94    |
| 10) Hexachlorobutadiene        | 10.88 | 225 | 2043  | 0.294  | ng | # 99  |
| 12) 2-Methylnaphthalene        | 12.21 | 142 | 7420  | 0.303  | ng | 97    |
| 16) Acenaphthylene             | 14.10 | 152 | 10862 | 0.295  | ng | 99    |
| 17) Acenaphthene               | 14.46 | 154 | 6851  | 0.293  | ng | 96    |
| 18) Fluorene                   | 15.45 | 166 | 8652  | 0.286  | ng | 98    |
| 20) 4,6-Dinitro-2-methylphenol | 15.51 | 198 | 461   | 0.269  | ng | # 56  |
| 21) 4-Bromophenyl-phenylether  | 16.34 | 248 | 2553  | 0.295  | ng | # 78  |
| 22) Hexachlorobenzene          | 16.44 | 284 | 2961  | 0.296  | ng | 99    |
| 23) Atrazine                   | 16.60 | 200 | 2154  | 0.252  | ng | # 93  |
| 24) Pentachlorophenol          | 16.79 | 266 | 1691  | 0.383  | ng | 96    |
| 25) Phenanthrene               | 17.18 | 178 | 14018 | 0.304  | ng | 100   |
| 26) Anthracene                 | 17.27 | 178 | 13355 | 0.294  | ng | 100   |
| 28) Fluoranthene               | 19.20 | 202 | 16487 | 0.295  | ng | 99    |
| 30) Pvrene                     | 19.56 | 202 | 17211 | 0.316  | ng | 99    |
| 32) Benzo(a)anthracene         | 21.31 | 228 | 17735 | 0.321  | ng | 98    |
| 33) Chrysene                   | 21.36 | 228 | 16667 | 0.316  | ng | 98    |
| 34) Bis(2-ethylhexyl)phthalate | 21.27 | 149 | 10965 | 0.266  | ng | 93    |
| 35) Indeno(1,2,3-cd)pyrene     | 25.87 | 276 | 23682 | 0.368  | ng | # 100 |
| 37) Benzo(b)fluoranthene       | 22.92 | 252 | 18850 | 0.295  | ng | # 96  |
| 38) Benzo(k)fluoranthene       | 22.96 | 252 | 18882 | 0.297  | ng | 99    |
| 39) Benzo(a)pyrene             | 23.49 | 252 | 17439 | 0.293  | ng | # 94  |
| 40) Dibenzo(a,h)anthracene     | 25.89 | 278 | 19871 | 0.319  | ng | 98    |
| 41) Benzo(g,h,i)perylene       | 26.56 | 276 | 20388 | 0.338  | ng | 98    |

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

```
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Data File : BN011616.D  
Acq On    : 25 Aug 2020 15:24  
Operator  : CG/JU  
Sample    : L3768-05MSD  
Misc      :  
ALS Vial  : 8      Sample Multiplier: 1
```



#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.76 min Scan# 593

Delta R.T. -0.01 min

Lab File: BN011616.D

Acq: 25 Aug 2020 15:24

Instrument :

BNA\_N

ClientSampleId :

CS-3MSD

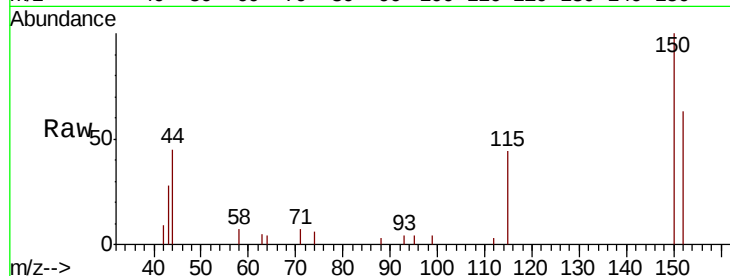
Tot Ion:152 Resp: 2787

Ion Ratio Lower Upper

152 100

150 157.6 112.4 168.6

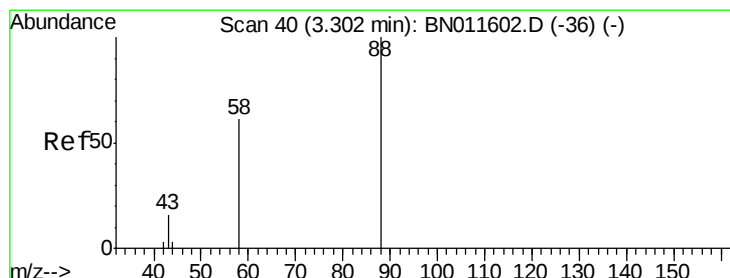
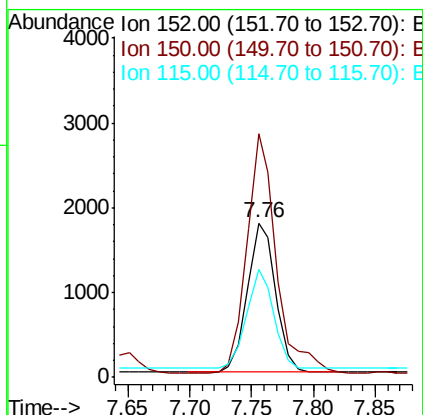
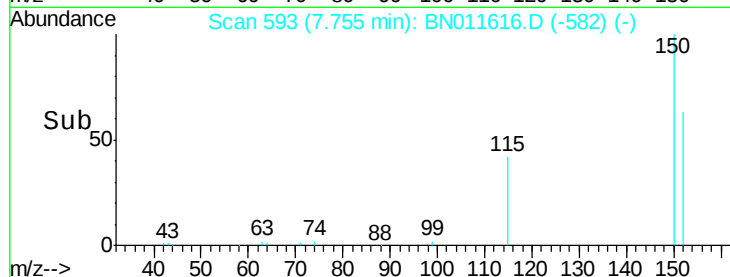
115 69.8 56.9 85.3



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



#2

1,4-Dioxane

Concen: 0.252 ng

RT: 3.29 min Scan# 39

Delta R.T. -0.01 min

Lab File: BN011616.D

Acq: 25 Aug 2020 15:24

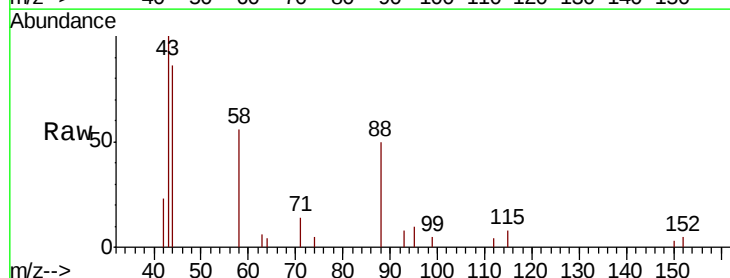
Tgt Ion: 88 Resp: 1090

Ion Ratio Lower Upper

88 100

58 80.4 3.0 4.4#

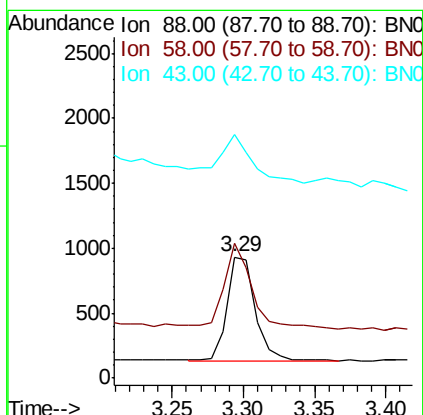
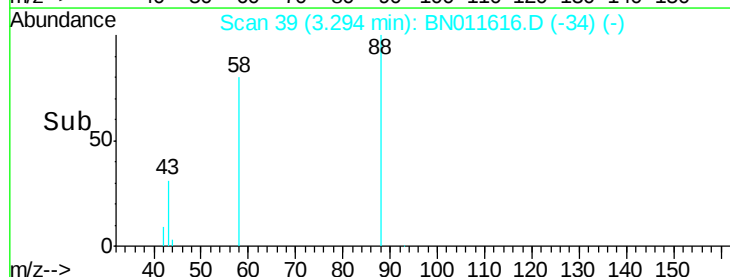
43 57.9 0.0 0.0#

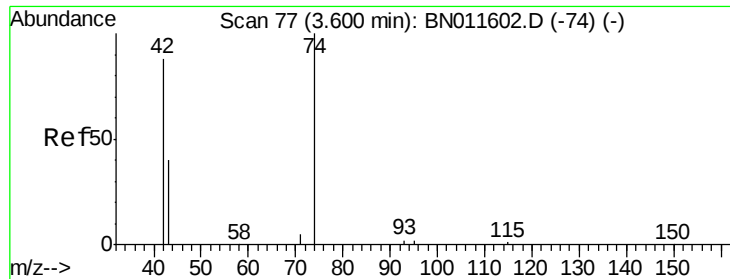


Abundance Ion 88.00 (87.70 to 88.70): BNC

Ion 58.00 (57.70 to 58.70): BNC

Ion 43.00 (42.70 to 43.70): BNC





#3

n-Nitrosodimethylamine

Concen: 0.314 ng

RT: 3.59 min Scan# 76

Delta R.T. -0.01 min

Lab File: BN011616.D

Acq: 25 Aug 2020 15:24

Instrument :

BNA\_N

ClientSampleId :

CS-3MSD

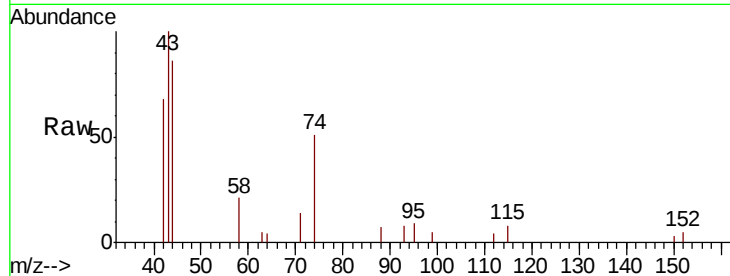
Tot Ion: 42 Resp: 1430

Ion Ratio Lower Upper

42 100

74 121.8 0.0 0.0#

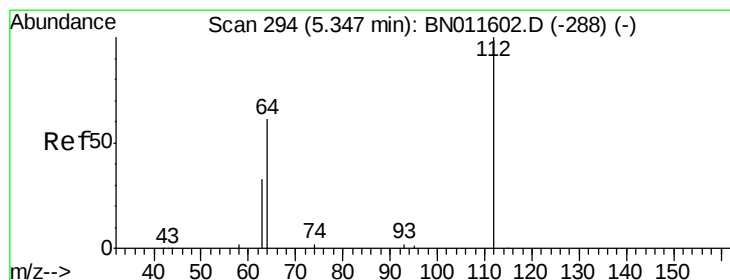
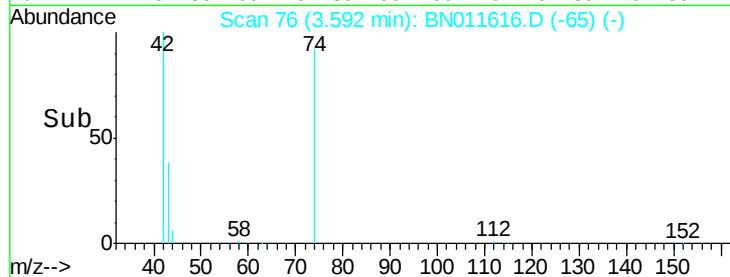
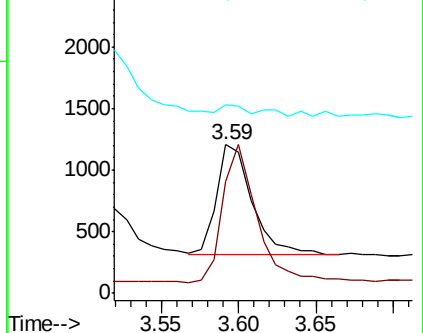
44 10.2 8.2 12.4



Abundance Ion 42.00 (41.70 to 42.70): BN011616.D (-65) (-)

Ion 74.00 (73.70 to 74.70): BN011616.D (-65) (-)

Ion 44.00 (43.70 to 44.70): BN011616.D (-65) (-)



#4

2-Fluorophenol

Concen: 0.467 ng

RT: 5.35 min Scan# 294

Delta R.T. 0.00 min

Lab File: BN011616.D

Acq: 25 Aug 2020 15:24

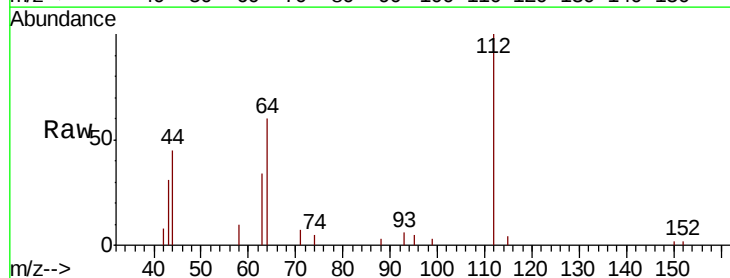
Tgt Ion: 112 Resp: 4163

Ion Ratio Lower Upper

112 100

64 60.3 49.6 74.4

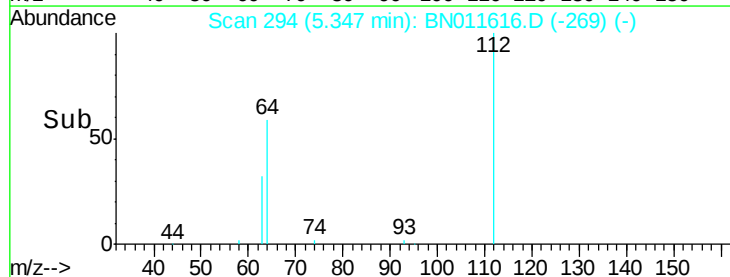
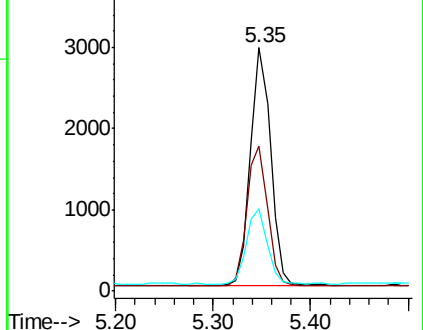
63 32.5 26.4 39.6

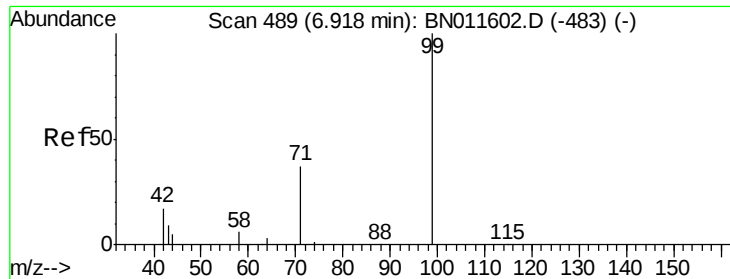


Abundance Ion 112.00 (111.70 to 112.70): BN011616.D (-269) (-)

Ion 64.00 (63.70 to 64.70): BN011616.D (-269) (-)

Ion 63.00 (62.70 to 63.70): BN011616.D (-269) (-)





#5

Phenol-d6

Concen: 0.437 ng

RT: 6.92 min Scan# 489

Delta R.T. 0.00 min

Lab File: BN011616.D

Acq: 25 Aug 2020 15:24

Instrument :

BNA\_N

ClientSampleId :

CS-3MSD

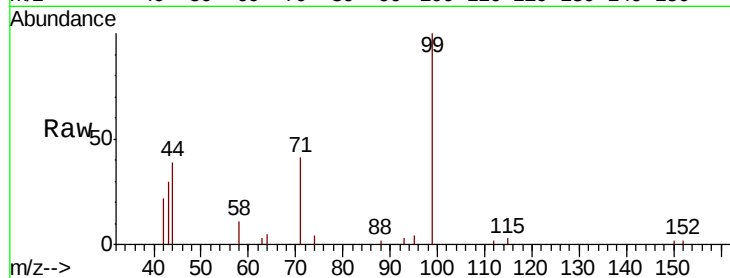
Tot Ion: 99 Resp: 5508

Ion Ratio Lower Upper

99 100

42 21.8 0.0 0.0#

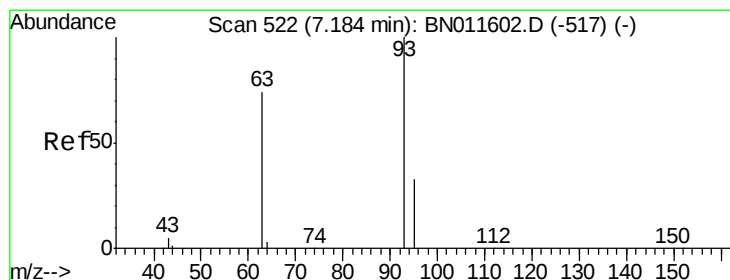
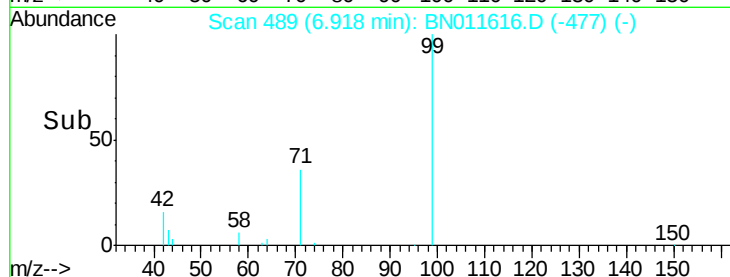
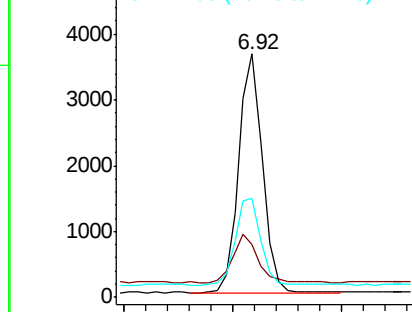
71 38.3 0.0 0.0#



Abundance Ion 99.00 (98.70 to 99.70): BN011616.D (-477) (-)

Ion 42.00 (41.70 to 42.70): BN011616.D (-477) (-)

Ion 71.00 (70.70 to 71.70): BN011616.D (-477) (-)



#6

bis(2-Chloroethyl)ether

Concen: 0.327 ng

RT: 7.18 min Scan# 522

Delta R.T. 0.00 min

Lab File: BN011616.D

Acq: 25 Aug 2020 15:24

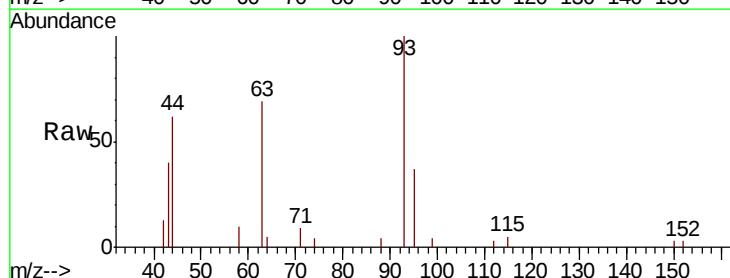
Tgt Ion: 93 Resp: 2927

Ion Ratio Lower Upper

93 100

63 75.5 57.8 86.8

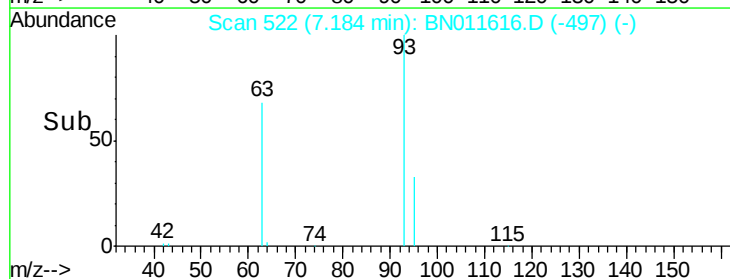
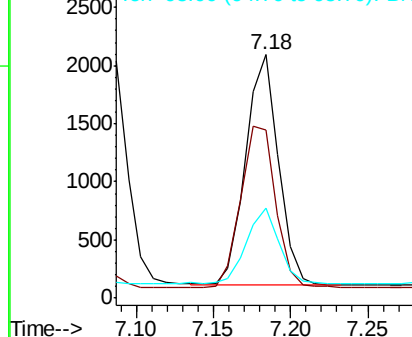
95 33.2 28.3 42.5

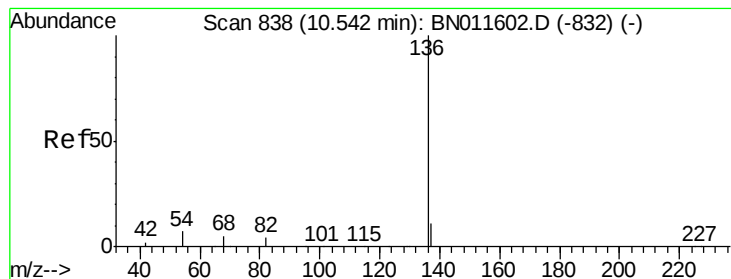


Abundance Ion 93.00 (92.70 to 93.70): BN011616.D (-497) (-)

Ion 63.00 (62.70 to 63.70): BN011616.D (-497) (-)

Ion 95.00 (94.70 to 95.70): BN011616.D (-497) (-)





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.54 min Scan# 838

Delta R.T. 0.00 min

Lab File: BN011616.D

Acq: 25 Aug 2020 15:24

Instrument :

BNA\_N

ClientSampled :

CS-3MSD

Tot Ion:136 Resp: 11663

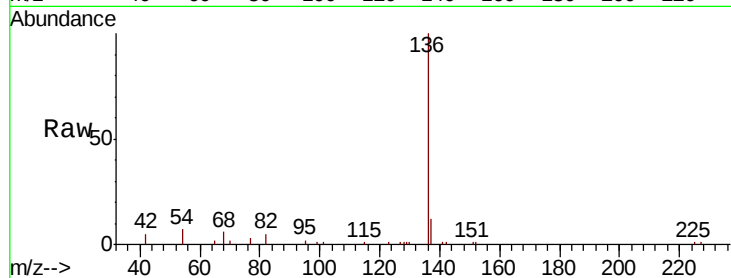
Ion Ratio Lower Upper

136 100

137 11.9 11.5 17.3

54 7.1 11.9 17.9#

68 5.7 12.3 18.5#

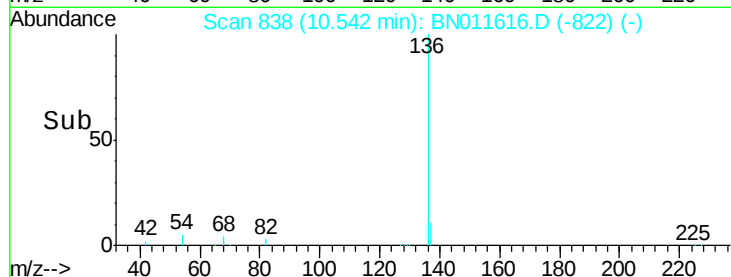


Abundance Ion 136.00 (135.70 to 136.70): E

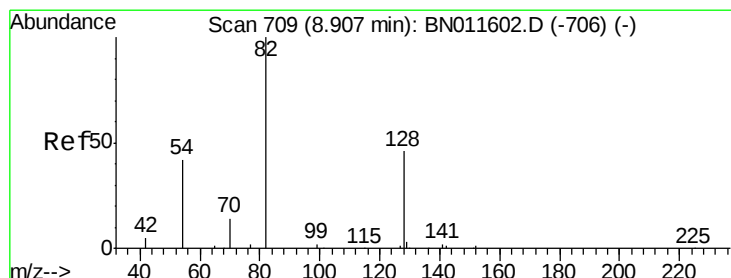
Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BNC

Ion 68.00 (67.70 to 68.70): BNC



Time-->



#8

Nitrobenzene-d5

Concen: 0.564 ng

RT: 8.89 min Scan# 708

Delta R.T. -0.01 min

Lab File: BN011616.D

Acq: 25 Aug 2020 15:24

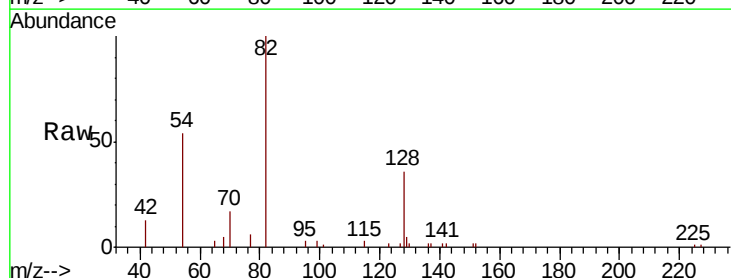
Tgt Ion: 82 Resp: 5697

Ion Ratio Lower Upper

82 100

128 36.0 31.1 46.7

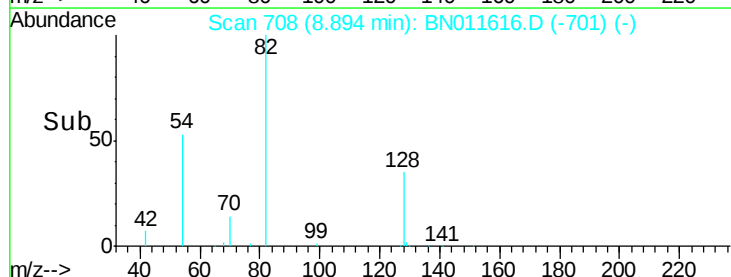
54 53.9 37.1 55.7



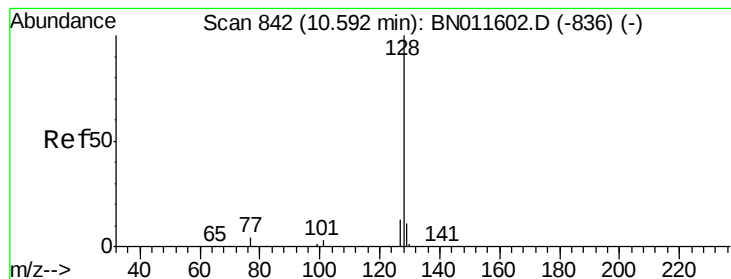
Abundance Ion 82.00 (81.70 to 82.70): BNC

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BNC



Time-->



#9

Naphthalene

Concen: 0.312 ng

RT: 10.59 min Scan# 842

Delta R.T. 0.00 min

Lab File: BN011616.D

Acq: 25 Aug 2020 15:24

Instrument :

BNA\_N

ClientSampleId :

CS-3MSD

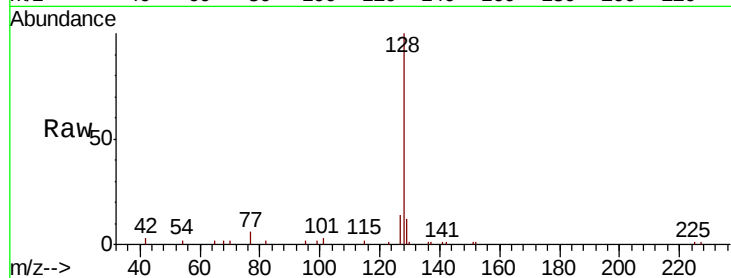
Tot Ion:128 Resp: 10335

Ion Ratio Lower Upper

128 100

129 12.1 11.0 16.4

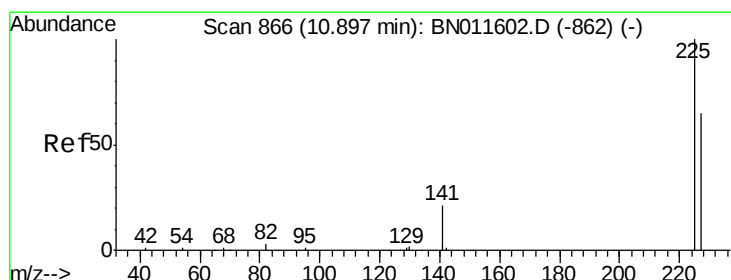
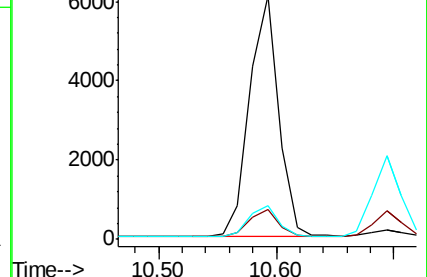
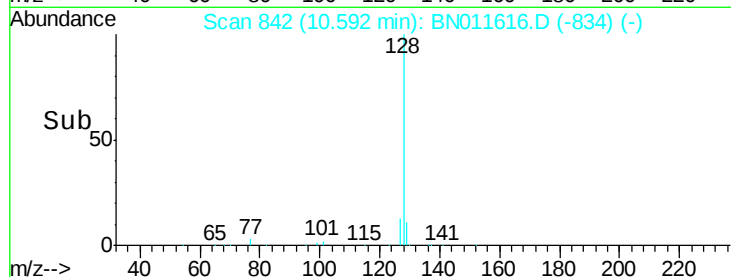
127 13.8 13.5 20.3



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



#10

Hexachlorobutadiene

Concen: 0.294 ng

RT: 10.88 min Scan# 865

Delta R.T. -0.01 min

Lab File: BN011616.D

Acq: 25 Aug 2020 15:24

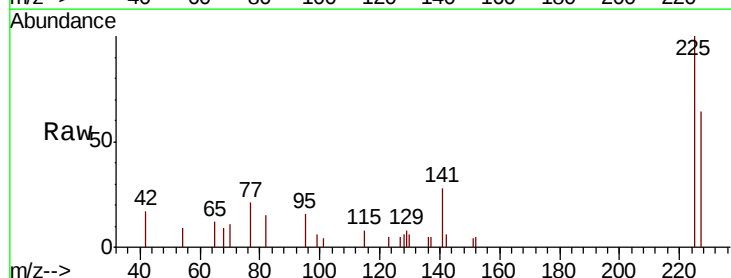
Tgt Ion:225 Resp: 2043

Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

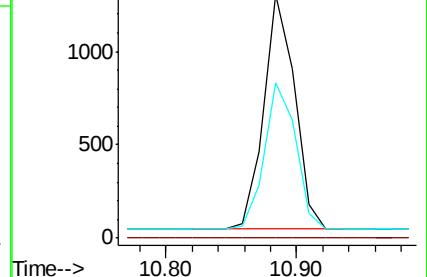
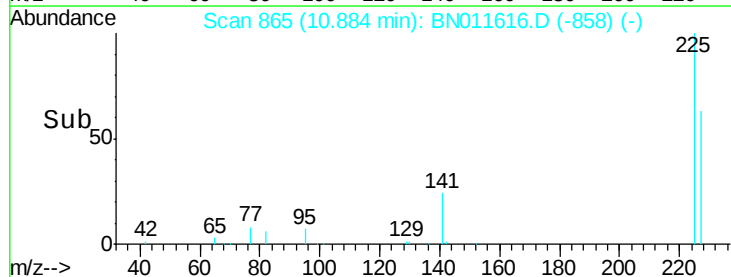
227 63.5 50.2 75.2

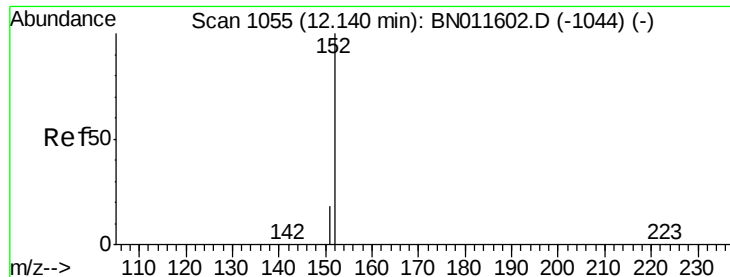


Abundance Ion 225.00 (224.70 to 225.70): E

Ion 223.00 (222.70 to 223.70): E

Ion 227.00 (226.70 to 227.70): E

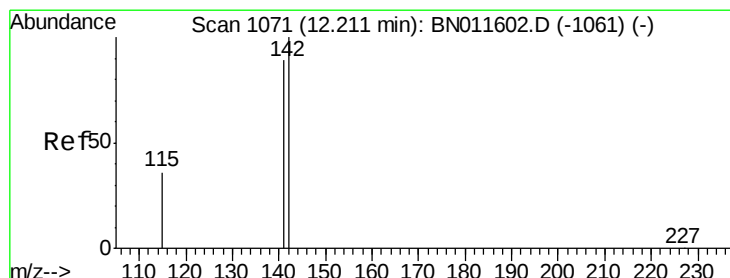
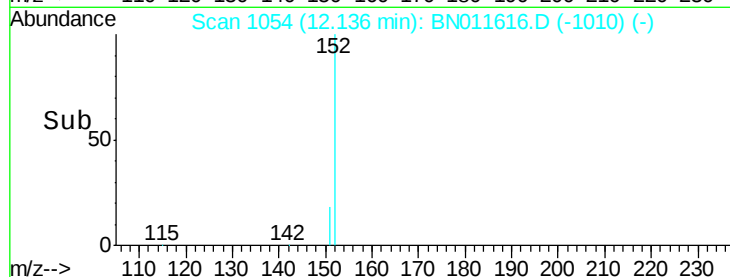
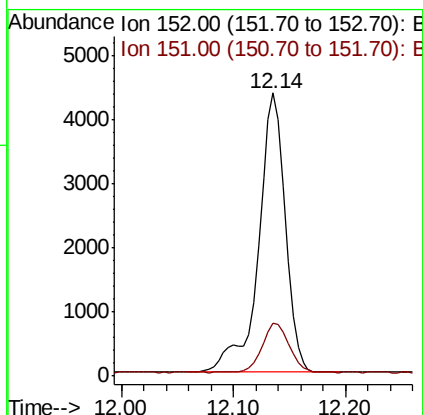
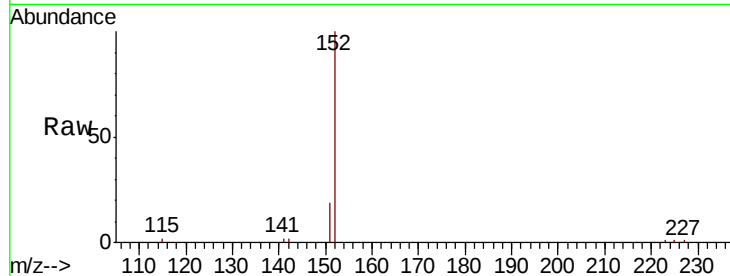




#11  
 2-Methylnaphthalene-d10  
 Concen: 0.329 ng  
 RT: 12.14 min Scan# 1054  
 Delta R.T. -0.00 min  
 Lab File: BN011616.D  
 Acq: 25 Aug 2020 15:24

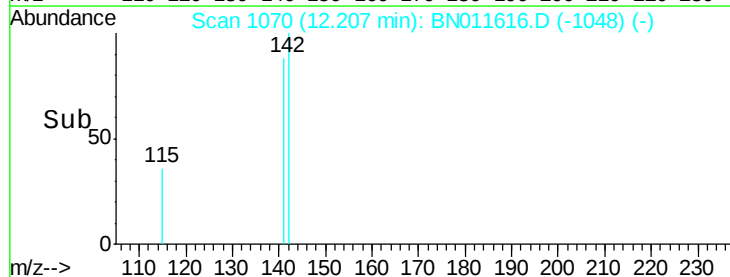
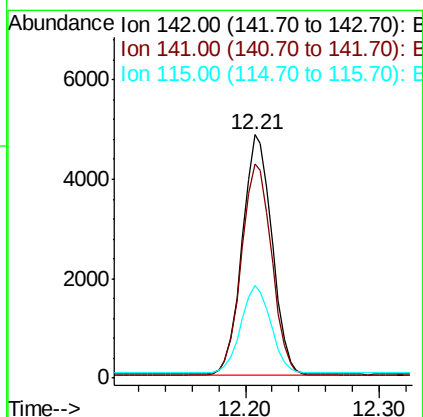
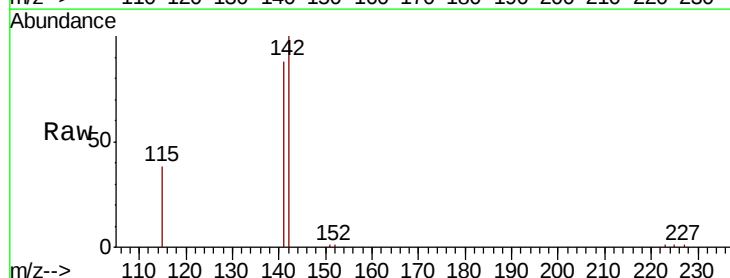
Instrument :  
 BNA\_N  
 ClientSampleId :  
 CS-3MSD

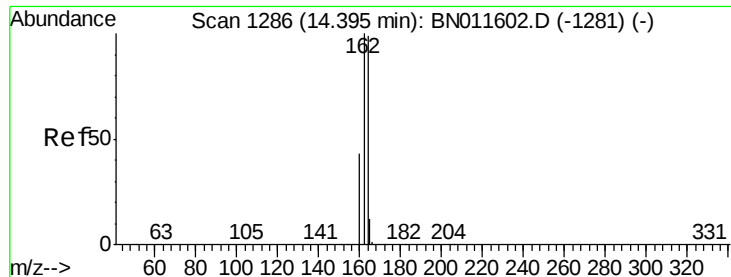
Tot Ion:152 Resp: 7265  
 Ion Ratio Lower Upper  
 152 100  
 151 17.9 16.4 24.6



#12  
 2-Methylnaphthalene  
 Concen: 0.303 ng  
 RT: 12.21 min Scan# 1070  
 Delta R.T. -0.00 min  
 Lab File: BN011616.D  
 Acq: 25 Aug 2020 15:24

Tgt Ion:142 Resp: 7420  
 Ion Ratio Lower Upper  
 142 100  
 141 88.1 72.7 109.1  
 115 38.1 32.7 49.1





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.40 min Scan# 1286

Delta R.T. 0.00 min

Lab File: BN011616.D

Acq: 25 Aug 2020 15:24

Instrument :

BNA\_N

ClientSampleId :

CS-3MSD

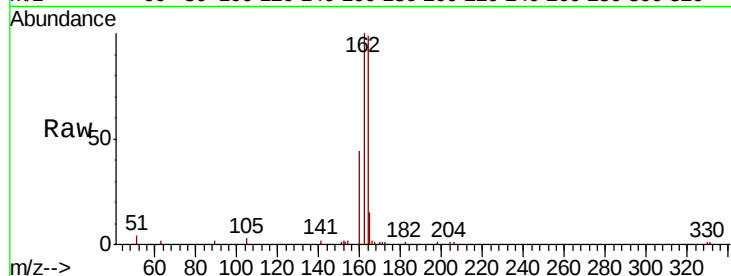
Tot Ion:164 Resp: 6990

Ion Ratio Lower Upper

164 100

162 101.4 80.8 121.2

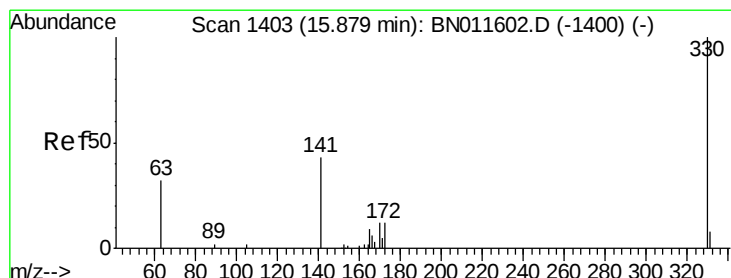
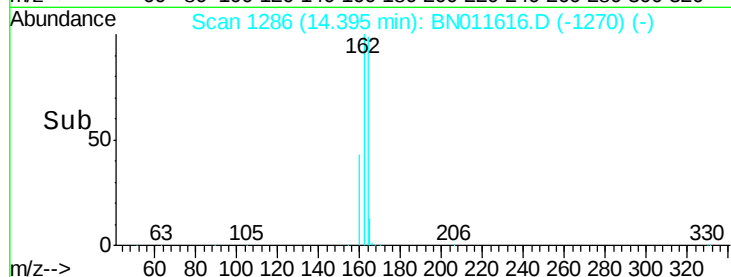
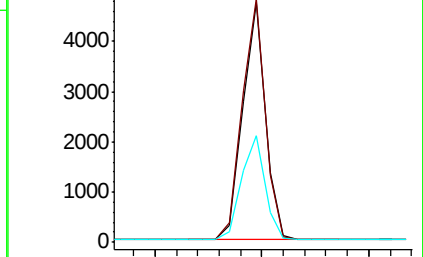
160 44.4 35.6 53.4



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



#14

2,4,6-Tribromophenol

Concen: 0.362 ng

RT: 15.88 min Scan# 1403

Delta R.T. 0.00 min

Lab File: BN011616.D

Acq: 25 Aug 2020 15:24

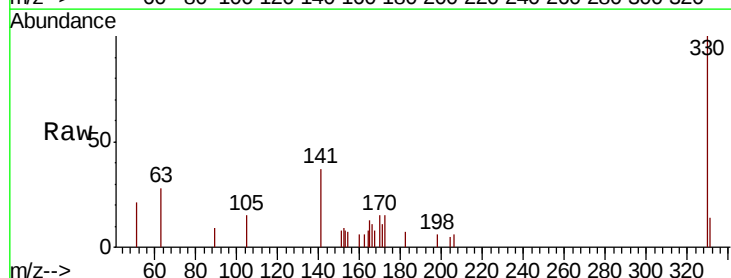
Tgt Ion:330 Resp: 1390

Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

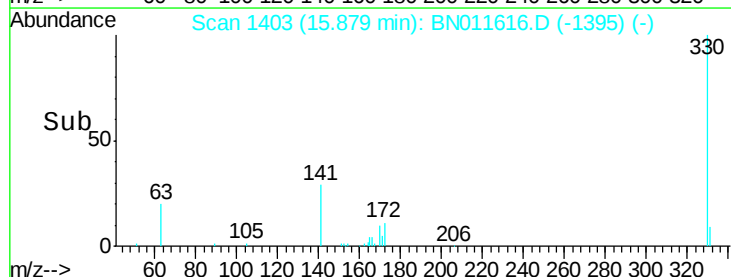
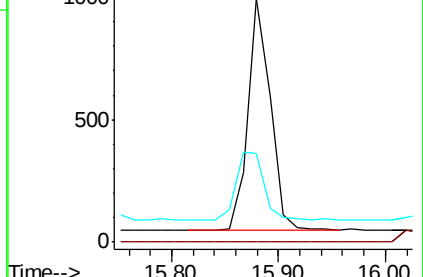
141 36.8 29.4 44.2

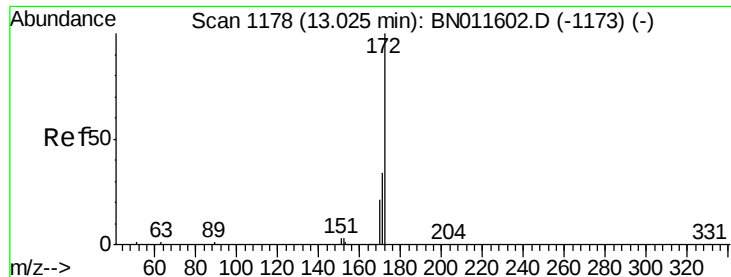


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

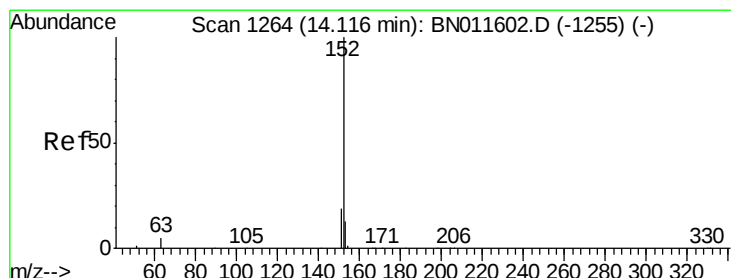
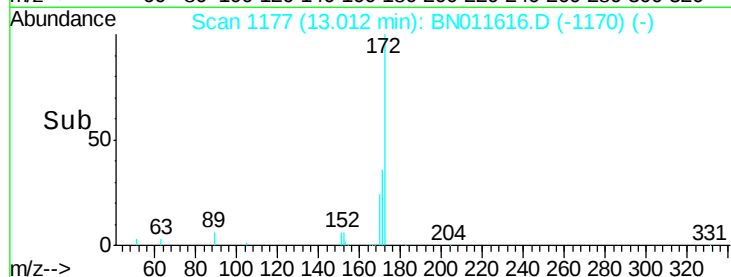
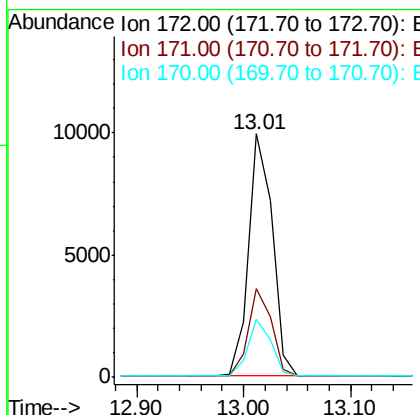
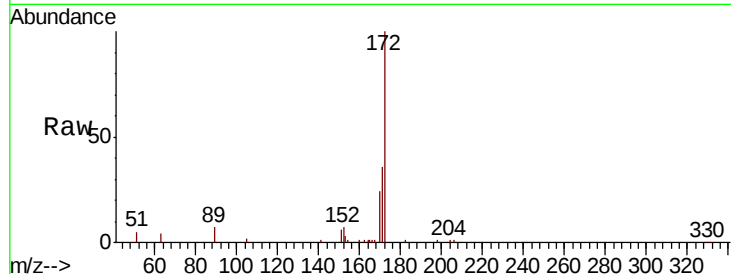




#15  
2-Fluorobiphenyl  
Concen: 0.567 ng  
RT: 13.01 min Scan# 1177  
Delta R.T. -0.01 min  
Lab File: BN011616.D  
Acq: 25 Aug 2020 15:24

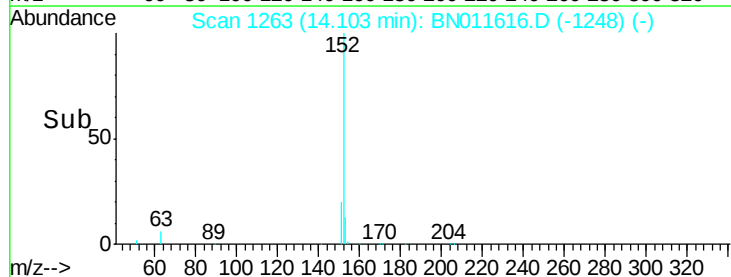
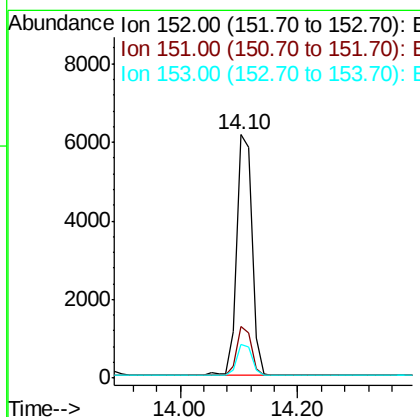
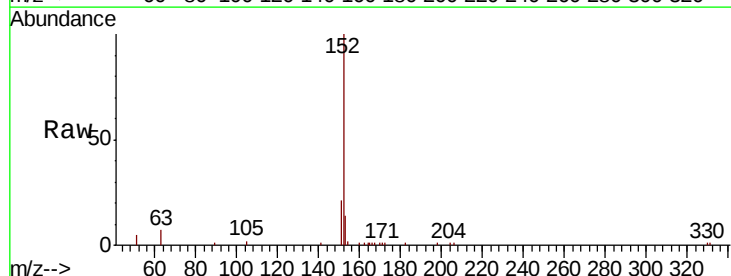
Instrument :  
BNA\_N  
ClientSampleId :  
CS-3MSD

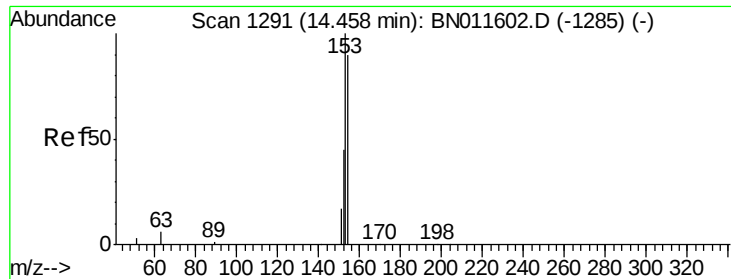
Tot Ion:172 Resp: 15431  
Ion Ratio Lower Upper  
172 100  
171 36.2 28.6 42.8  
170 24.0 18.2 27.2



#16  
Acenaphthylene  
Concen: 0.295 ng  
RT: 14.10 min Scan# 1263  
Delta R.T. -0.01 min  
Lab File: BN011616.D  
Acq: 25 Aug 2020 15:24

Tgt Ion:152 Resp: 10862  
Ion Ratio Lower Upper  
152 100  
151 20.0 16.2 24.2  
153 12.9 11.0 16.4





#17

Acenaphthene

Concen: 0.293 ng

RT: 14.46 min Scan# 1291

Delta R.T. 0.00 min

Lab File: BN011616.D

Acq: 25 Aug 2020 15:24

Instrument :

BNA\_N

ClientSampleId :

CS-3MSD

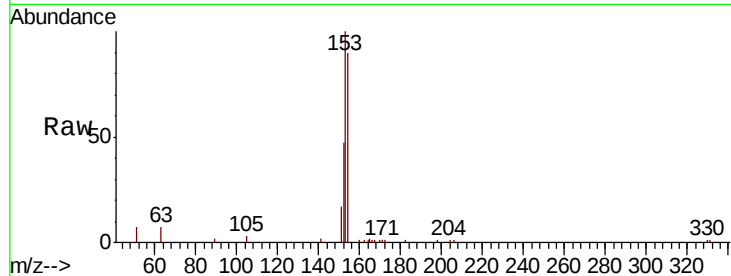
Tot Ion:154 Resp: 6851

Ion Ratio Lower Upper

154 100

153 112.7 86.6 130.0

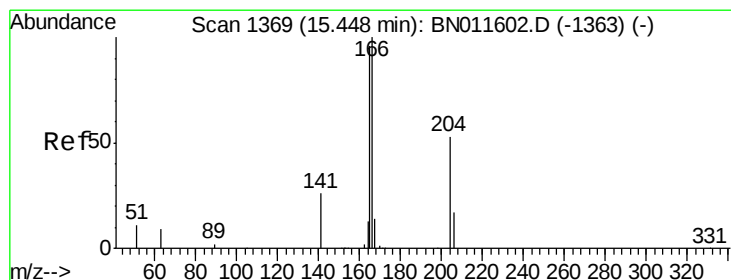
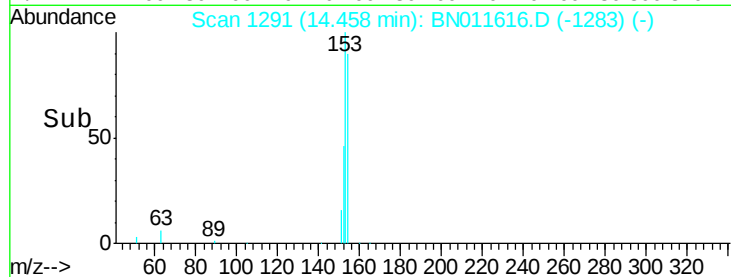
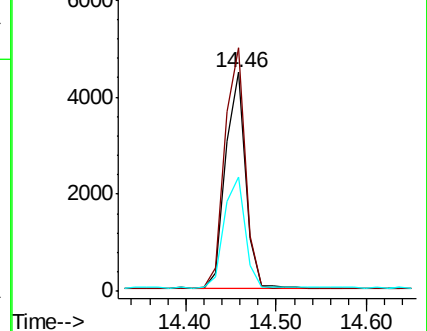
152 53.1 40.1 60.1



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



#18

Fluorene

Concen: 0.286 ng

RT: 15.45 min Scan# 1369

Delta R.T. 0.00 min

Lab File: BN011616.D

Acq: 25 Aug 2020 15:24

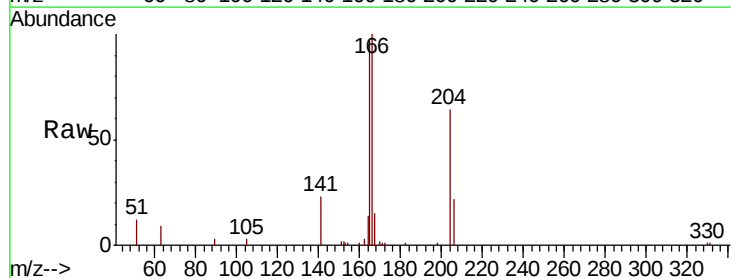
Tgt Ion:166 Resp: 8652

Ion Ratio Lower Upper

166 100

165 98.4 77.4 116.2

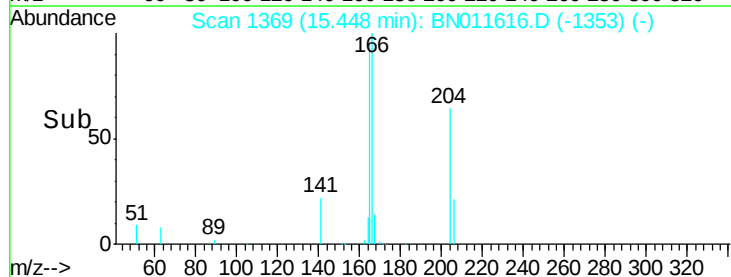
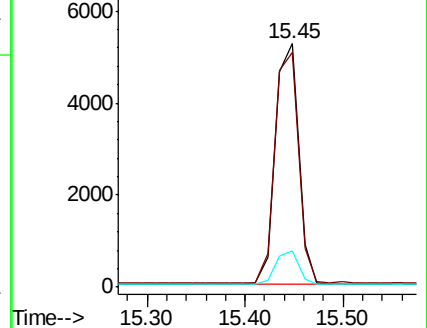
167 13.8 11.5 17.3

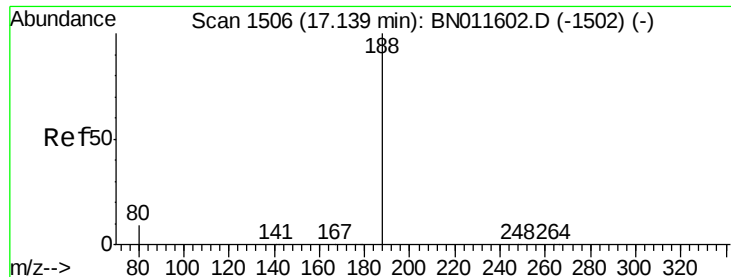


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.14 min Scan# 1506

Delta R.T. 0.00 min

Lab File: BN011616.D

Acq: 25 Aug 2020 15:24

Instrument :

BNA\_N

ClientSampleId :

CS-3MSD

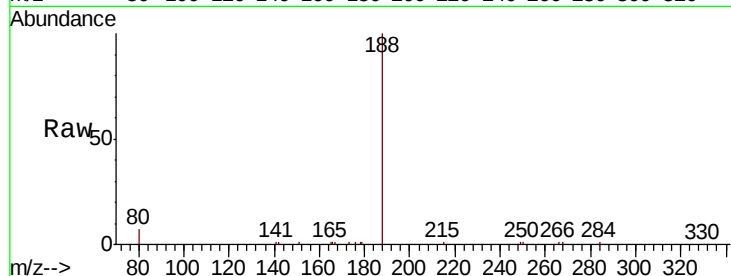
Tot Ion:188 Resp: 14840

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

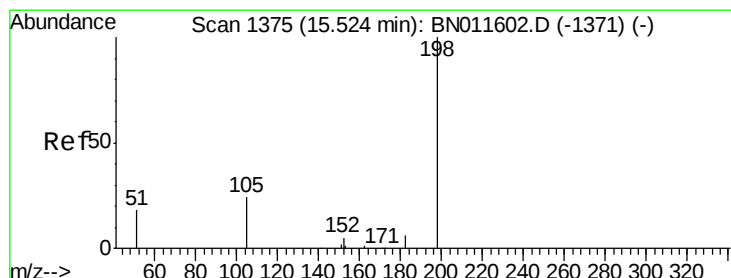
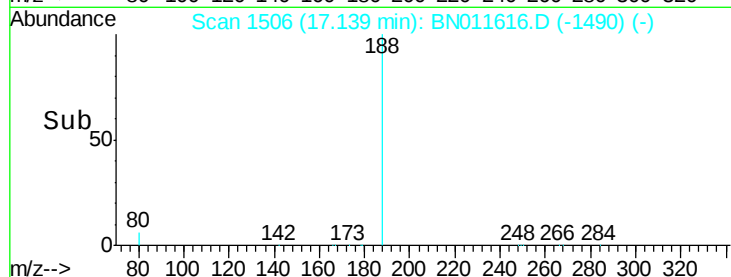
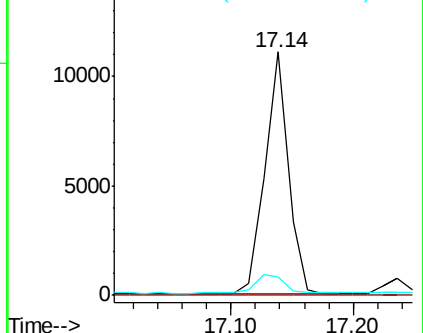
80 7.3 9.2 13.8#



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BNC

Ion 80.00 (79.70 to 80.70): BNC



#20

4,6-Dinitro-2-methylphenol

Concen: 0.269 ng

RT: 15.51 min Scan# 1374

Delta R.T. -0.01 min

Lab File: BN011616.D

Acq: 25 Aug 2020 15:24

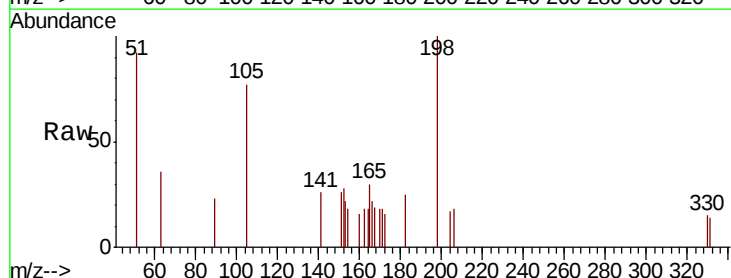
Tgt Ion:198 Resp: 461

Ion Ratio Lower Upper

198 100

51 91.6 99.6 149.4#

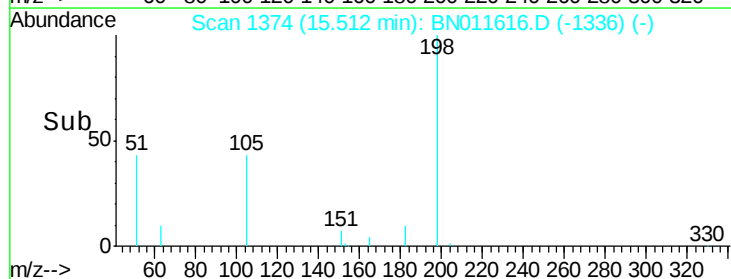
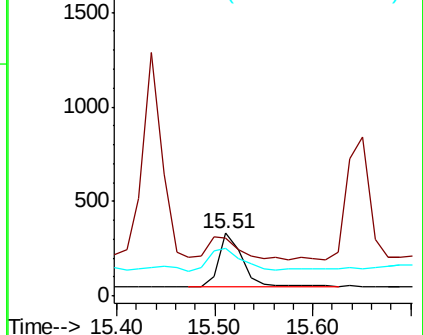
105 76.6 118.8 178.2#

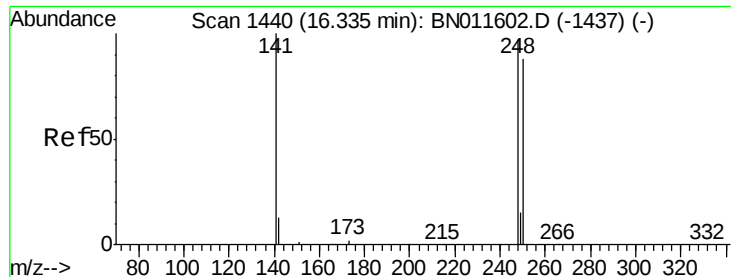


Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BNC

Ion 105.00 (104.70 to 105.70): E

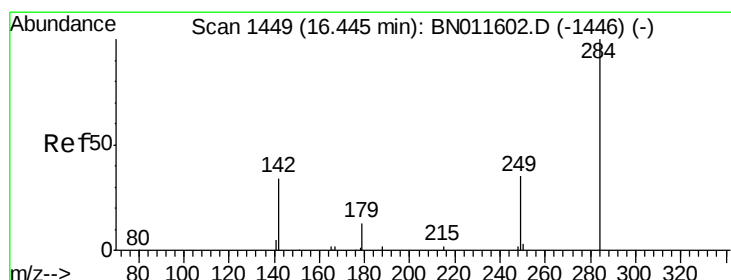
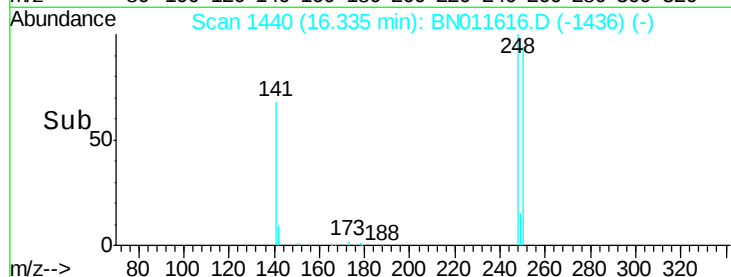
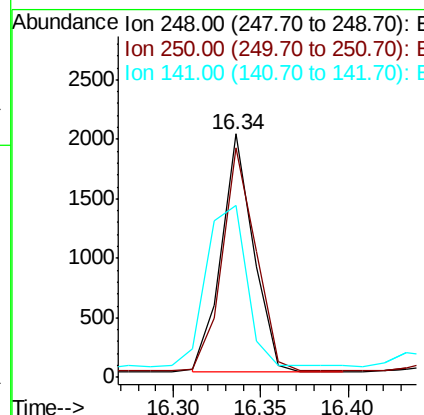
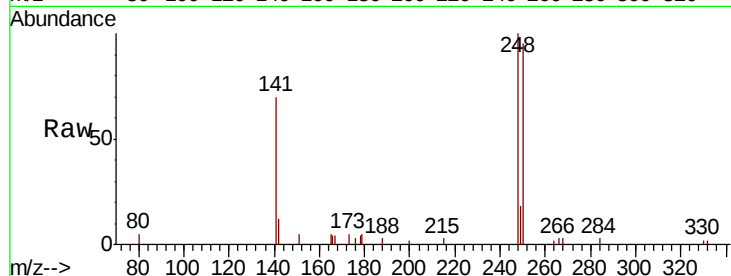




#21  
4-Bromophenyl-phenylether  
Concen: 0.295 ng  
RT: 16.34 min Scan# 1440  
Delta R.T. 0.00 min  
Lab File: BN011616.D  
Acq: 25 Aug 2020 15:24

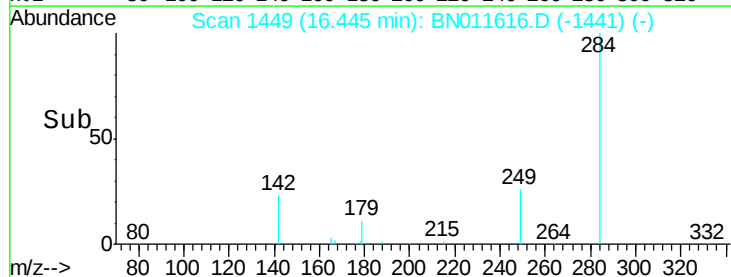
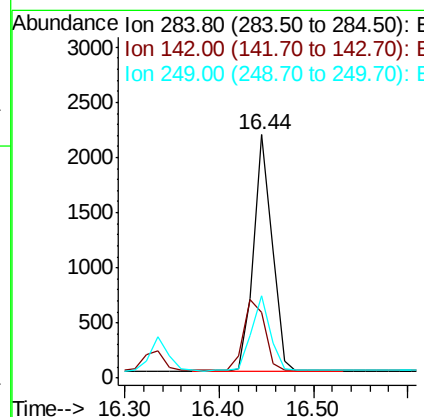
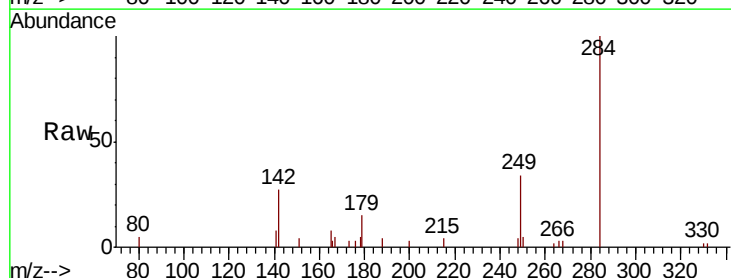
Instrument :  
BNA\_N  
ClientSampled :  
CS-3MSD

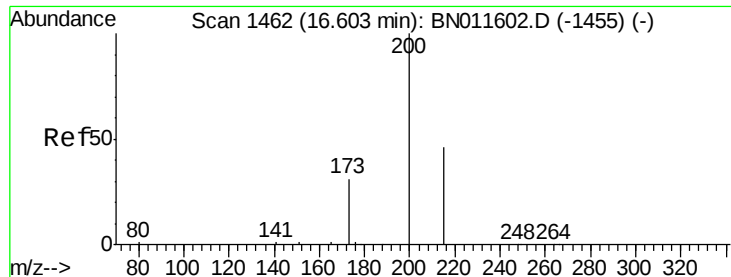
Tot Ion:248 Resp: 2553  
Ion Ratio Lower Upper  
248 100  
250 94.5 73.4 110.2  
141 70.5 88.5 132.7#



#22  
Hexachlorobenzene  
Concen: 0.296 ng  
RT: 16.44 min Scan# 1449  
Delta R.T. 0.00 min  
Lab File: BN011616.D  
Acq: 25 Aug 2020 15:24

Tgt Ion:284 Resp: 2961  
Ion Ratio Lower Upper  
284 100  
142 34.0 27.3 40.9  
249 32.4 25.2 37.8





#23

Atrazine

Concen: 0.252 ng

RT: 16.60 min Scan# 1462

Delta R.T. 0.00 min

Lab File: BN011616.D

Acq: 25 Aug 2020 15:24

Instrument :

BNA\_N

ClientSampleId :

CS-3MSD

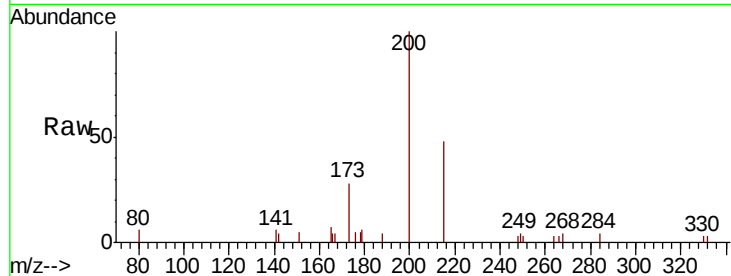
Tot Ion:200 Resp: 2154

Ion Ratio Lower Upper

200 100

173 27.7 28.2 42.4#

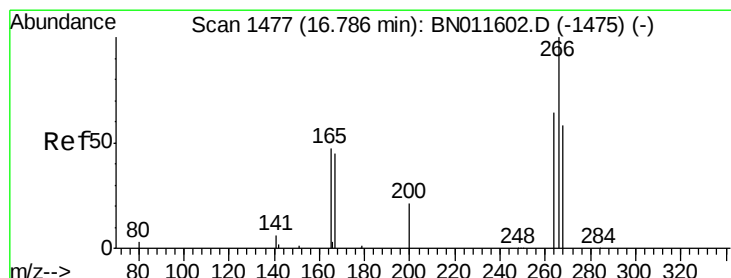
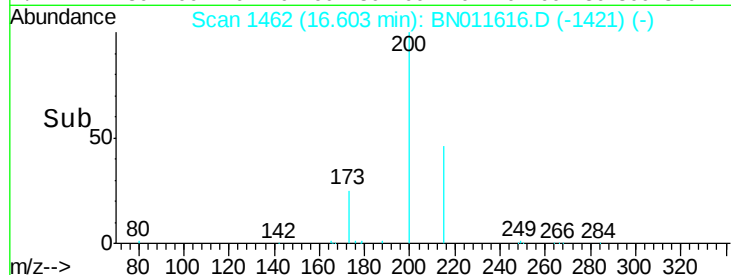
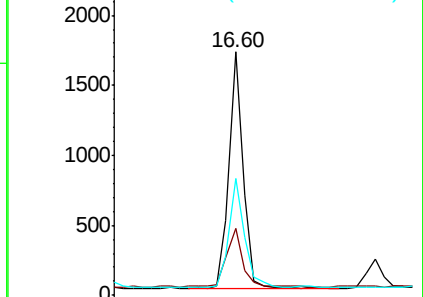
215 47.8 39.8 59.6



Abundance Ion 200.00 (199.70 to 200.70): E

Ion 173.00 (172.70 to 173.70): E

Ion 215.00 (214.70 to 215.70): E



#24

Pentachlorophenol

Concen: 0.383 ng

RT: 16.79 min Scan# 1477

Delta R.T. 0.00 min

Lab File: BN011616.D

Acq: 25 Aug 2020 15:24

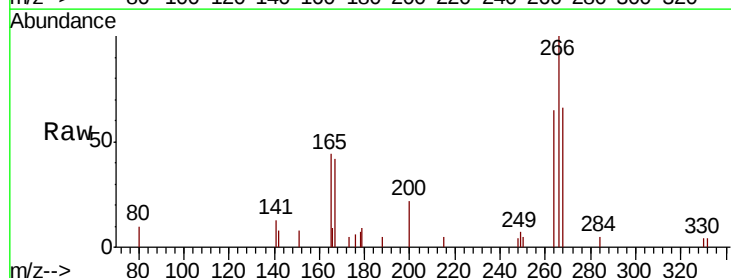
Tgt Ion:266 Resp: 1691

Ion Ratio Lower Upper

266 100

264 62.2 48.1 72.1

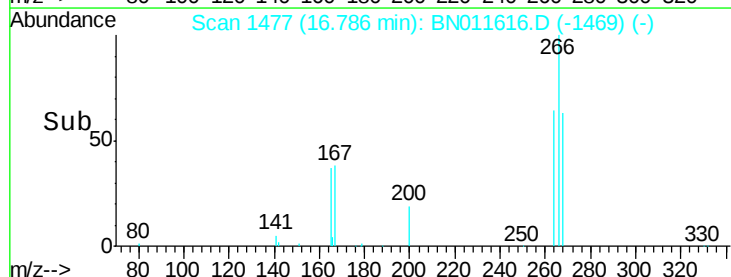
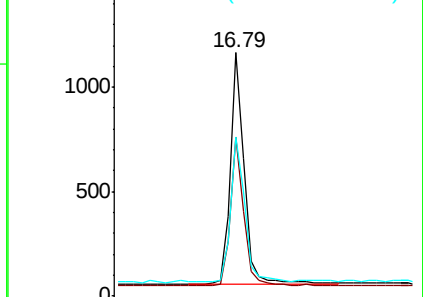
268 64.3 48.4 72.6

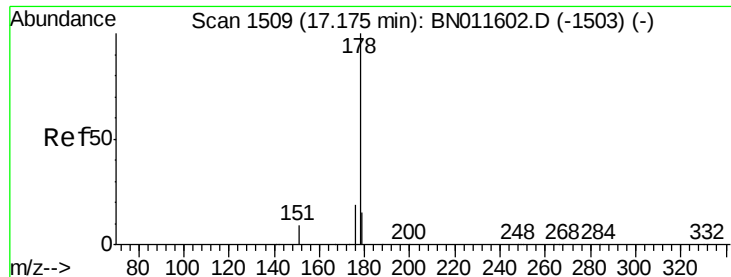


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#25

Phenanthrene

Concen: 0.304 ng

RT: 17.18 min Scan# 1509

Delta R.T. 0.00 min

Lab File: BN011616.D

Acq: 25 Aug 2020 15:24

Instrument :

BNA\_N

ClientSampleId :

CS-3MSD

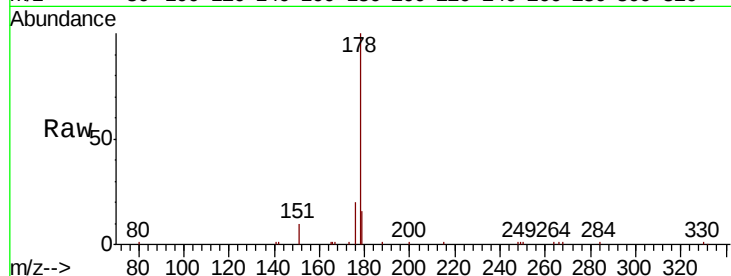
Tot Ion:178 Resp: 14018

Ion Ratio Lower Upper

178 100

176 18.7 15.0 22.4

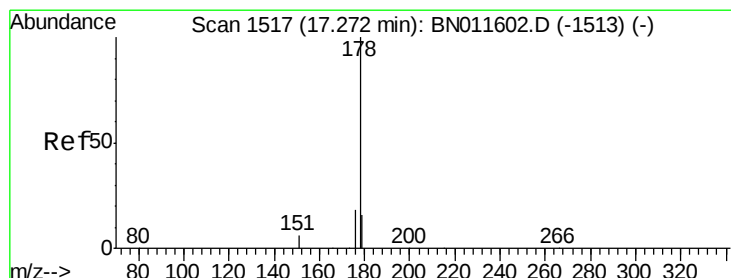
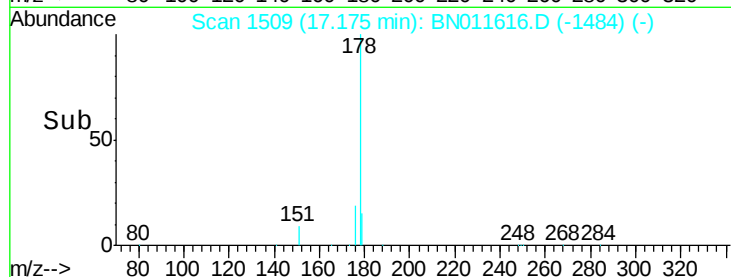
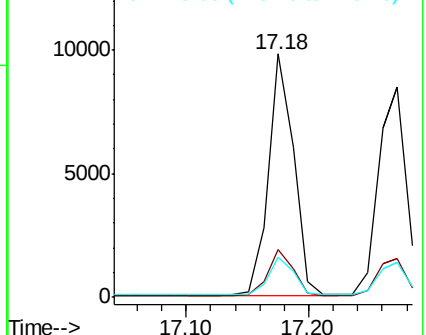
179 15.9 12.6 18.8



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



#26

Anthracene

Concen: 0.294 ng

RT: 17.27 min Scan# 1517

Delta R.T. 0.00 min

Lab File: BN011616.D

Acq: 25 Aug 2020 15:24

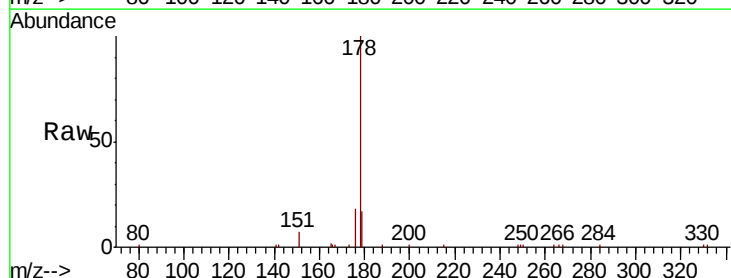
Tgt Ion:178 Resp: 13355

Ion Ratio Lower Upper

178 100

176 18.2 14.6 21.8

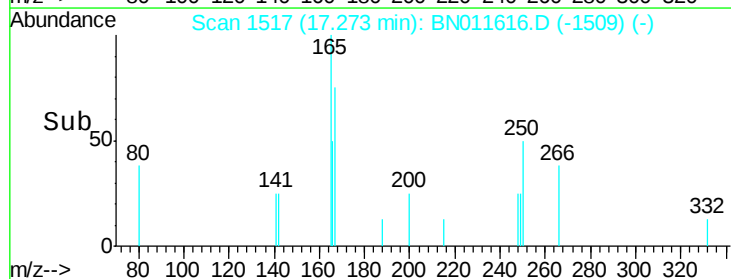
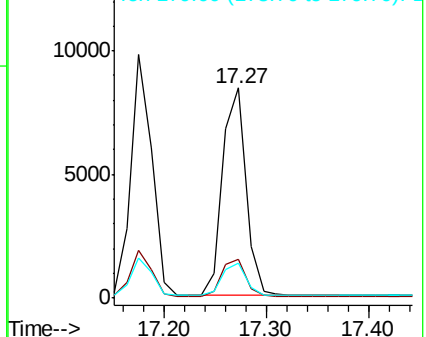
179 15.4 12.5 18.7

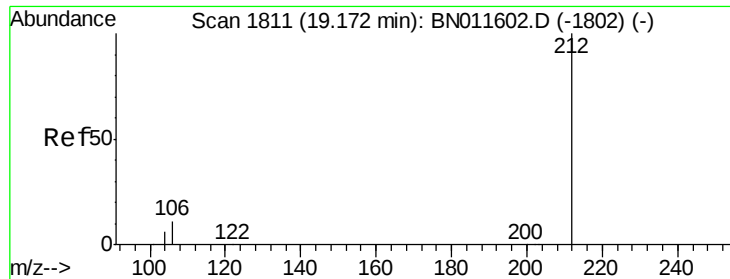


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#27

Fluoranthene-d10

Concen: 0.304 ng

RT: 19.17 min Scan# 1811

Delta R.T. 0.00 min

Lab File: BN011616.D

Acq: 25 Aug 2020 15:24

Instrument :

BNA\_N

ClientSampleId :

CS-3MSD

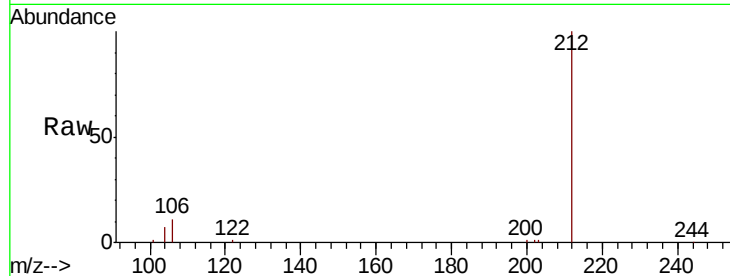
Tot Ion:212 Resp: 14685

Ion Ratio Lower Upper

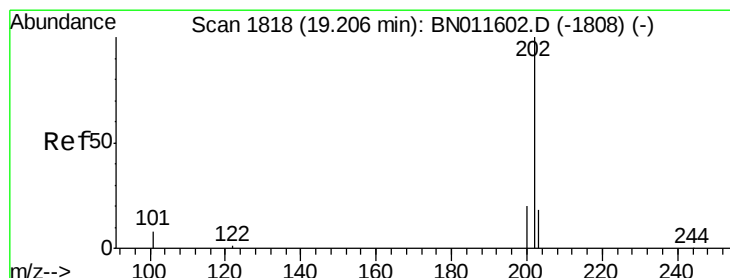
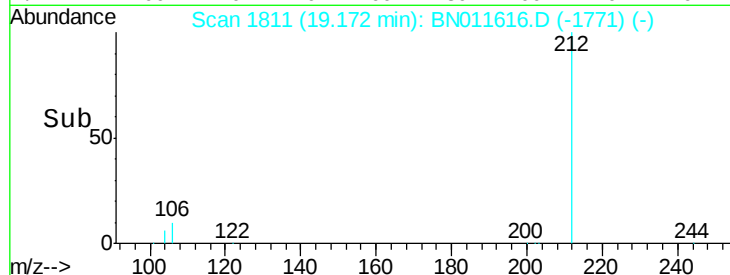
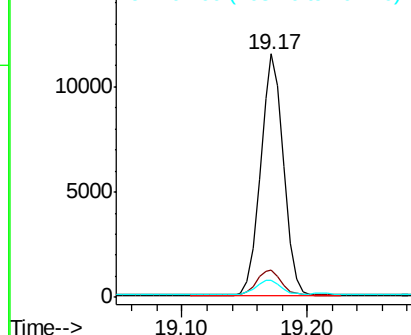
212 100

106 10.7 8.9 13.3

104 6.3 5.3 7.9



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



#28

Fluoranthene

Concen: 0.295 ng

RT: 19.20 min Scan# 1817

Delta R.T. -0.00 min

Lab File: BN011616.D

Acq: 25 Aug 2020 15:24

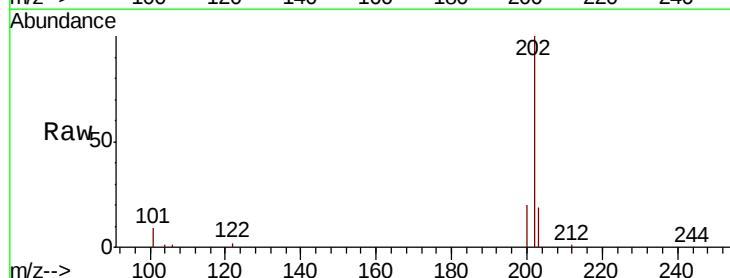
Tgt Ion:202 Resp: 16487

Ion Ratio Lower Upper

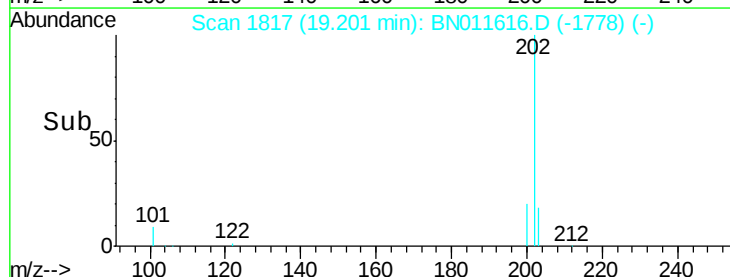
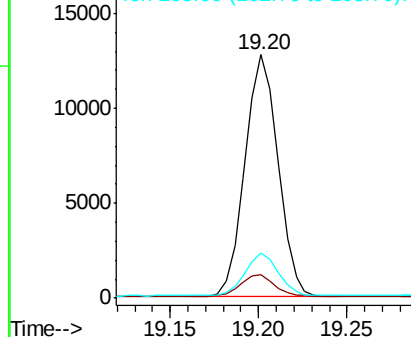
202 100

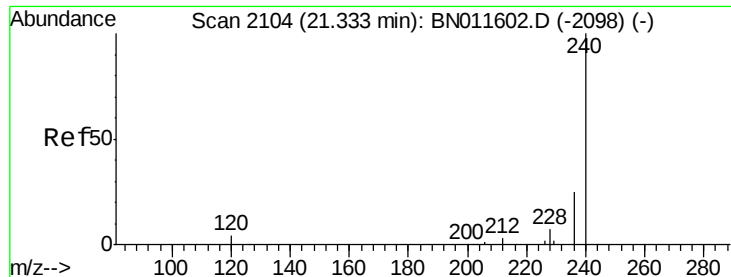
101 9.9 7.7 11.5

203 17.7 13.9 20.9



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

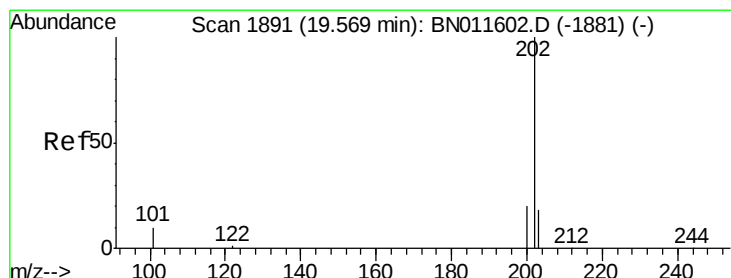
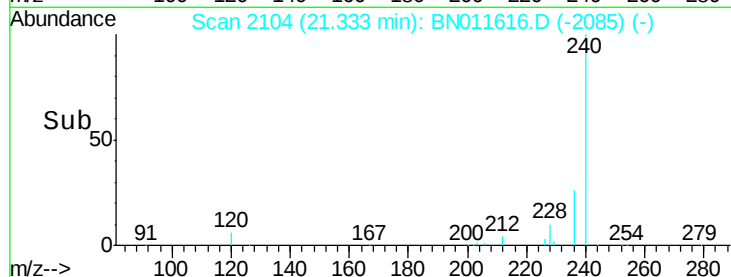
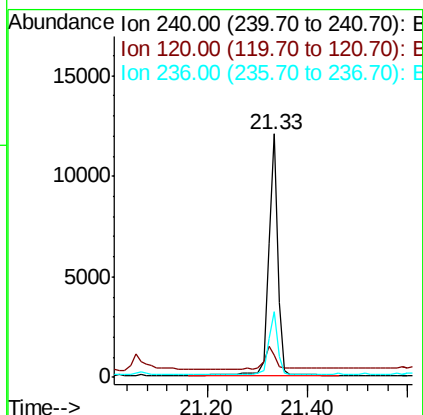
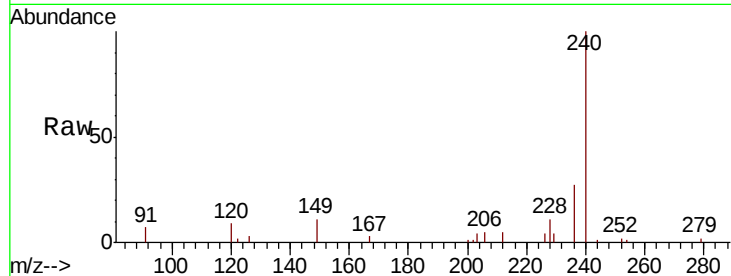




#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 21.33 min Scan# 2104  
Delta R.T. 0.00 min  
Lab File: BN011616.D  
Acq: 25 Aug 2020 15:24

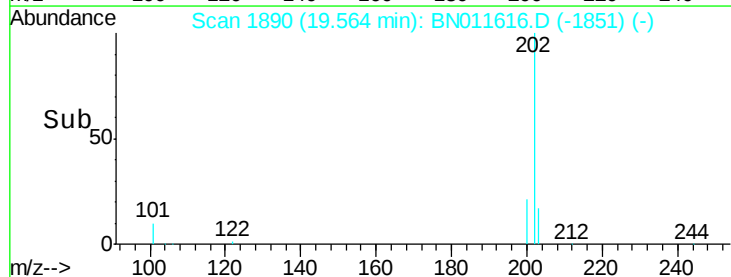
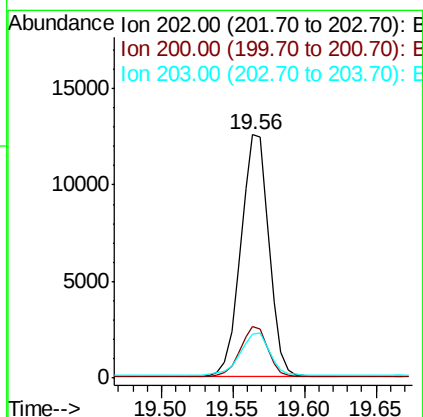
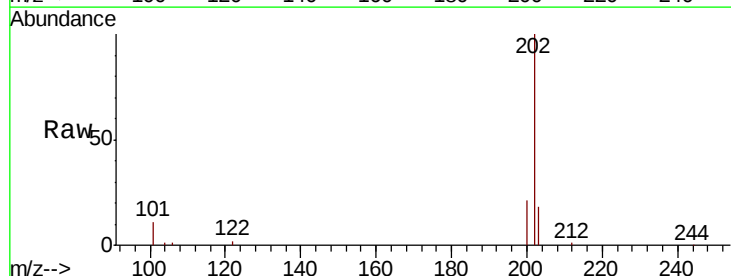
Instrument :  
BNA\_N  
ClientSampleId :  
CS-3MSD

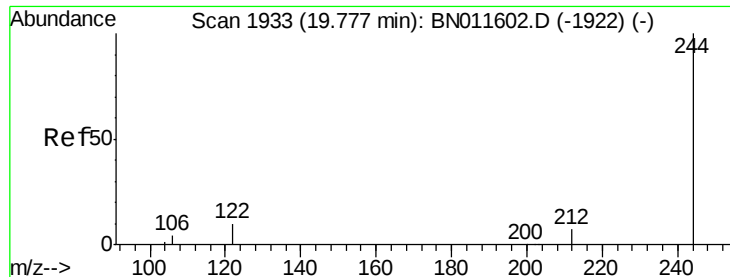
Tot Ion:240 Resp: 15341  
Ion Ratio Lower Upper  
240 100  
120 9.1 6.0 9.0#  
236 26.8 20.8 31.2



#30  
Pyrene  
Concen: 0.316 ng  
RT: 19.56 min Scan# 1890  
Delta R.T. -0.00 min  
Lab File: BN011616.D  
Acq: 25 Aug 2020 15:24

Tgt Ion:202 Resp: 17211  
Ion Ratio Lower Upper  
202 100  
200 20.3 16.3 24.5  
203 18.5 14.2 21.4





#31

Terphenyl-d14

Concen: 0.601 ng

RT: 19.78 min Scan# 1933

Delta R.T. 0.00 min

Lab File: BN011616.D

Acq: 25 Aug 2020 15:24

Instrument :

BNA\_N

ClientSampled :

CS-3MSD

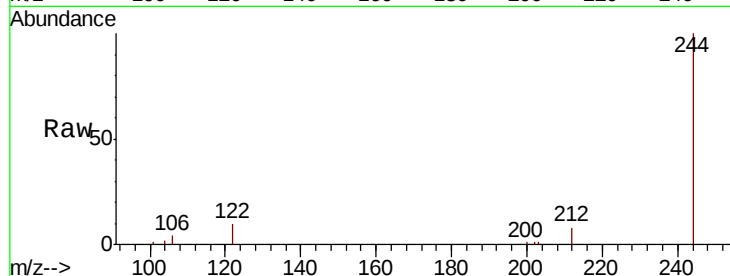
Tot Ion:244 Resp: 23540

Ion Ratio Lower Upper

244 100

212 7.7 6.5 9.7

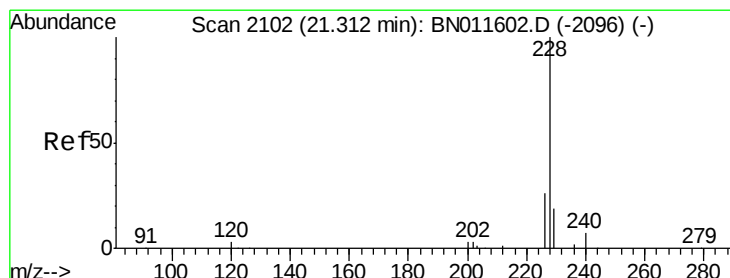
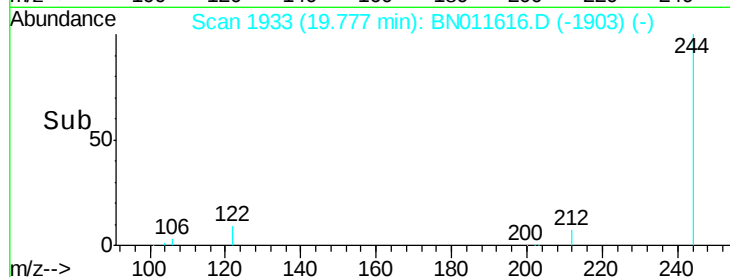
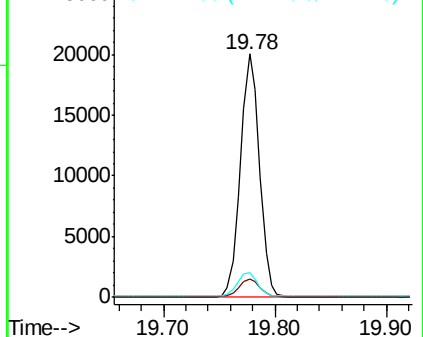
122 10.0 9.5 14.3



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

Benzo(a)anthracene

Concen: 0.321 ng

RT: 21.31 min Scan# 2102

Delta R.T. 0.00 min

Lab File: BN011616.D

Acq: 25 Aug 2020 15:24

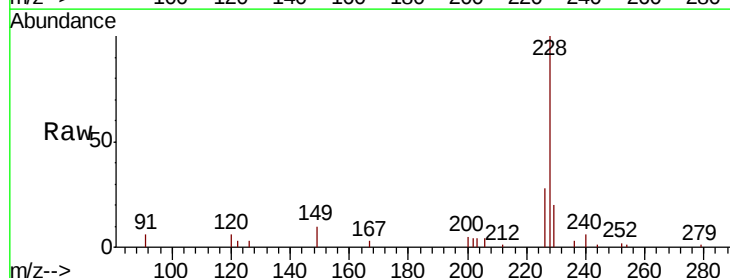
Tgt Ion:228 Resp: 17735

Ion Ratio Lower Upper

228 100

226 27.9 21.2 31.8

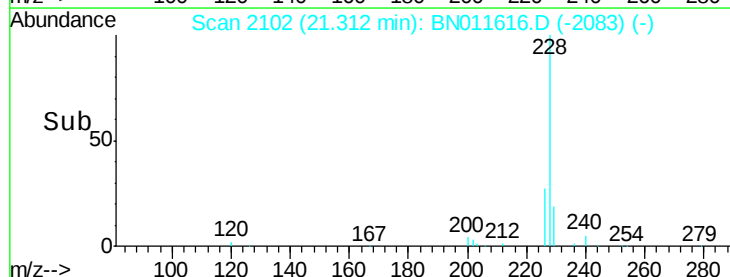
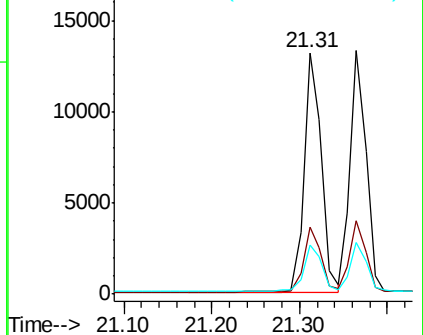
229 20.5 15.8 23.8

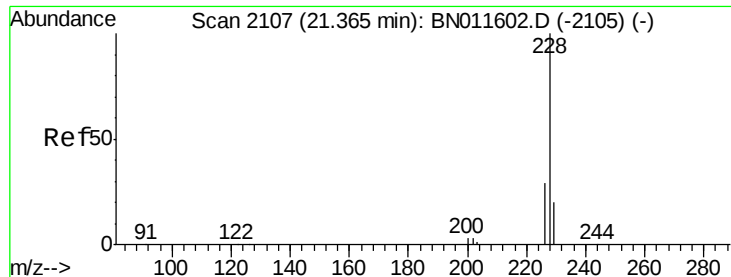


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#33

Chrysene

Concen: 0.316 ng

RT: 21.36 min Scan# 2107

Delta R.T. 0.00 min

Lab File: BN011616.D

Acq: 25 Aug 2020 15:24

Instrument :

BNA\_N

ClientSampleId :

CS-3MSD

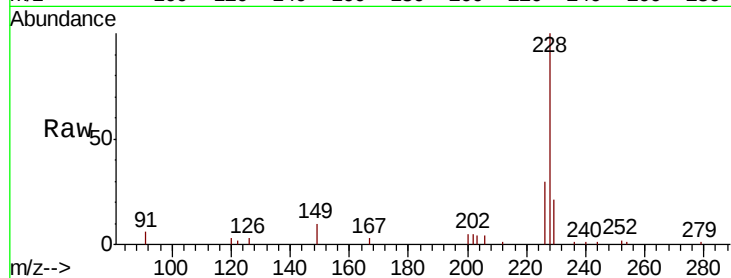
Tot Ion:228 Resp: 16667

Ion Ratio Lower Upper

228 100

226 30.2 23.6 35.4

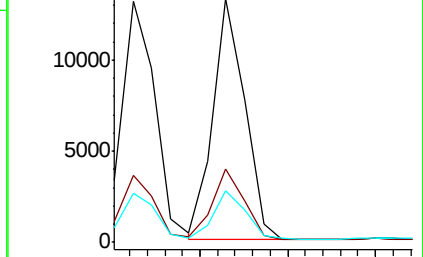
229 20.9 16.0 24.0



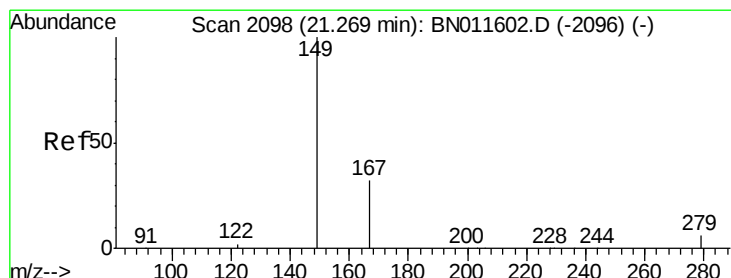
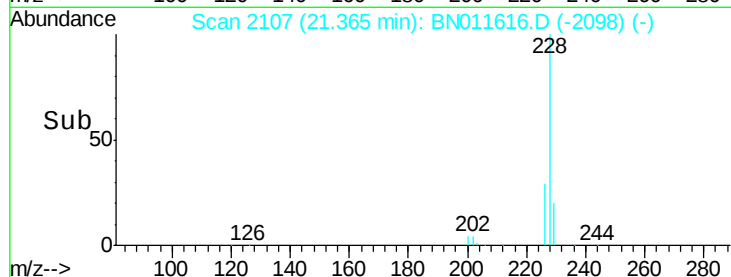
Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



Time-->



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.266 ng

RT: 21.27 min Scan# 2098

Delta R.T. 0.00 min

Lab File: BN011616.D

Acq: 25 Aug 2020 15:24

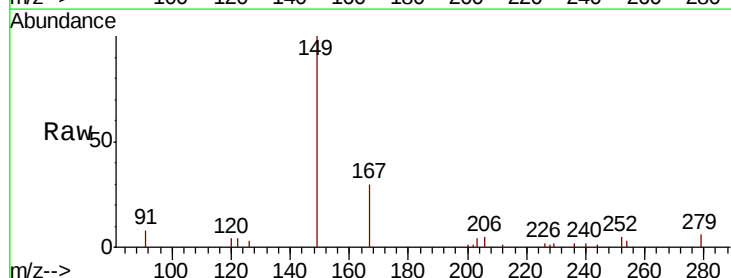
Tgt Ion:149 Resp: 10965

Ion Ratio Lower Upper

149 100

167 29.6 20.6 31.0

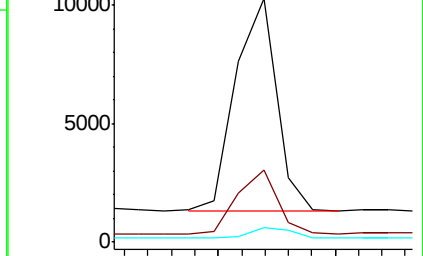
279 5.2 3.8 5.8



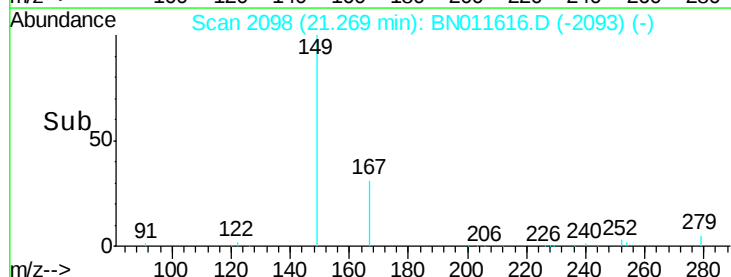
Abundance Ion 149.00 (148.70 to 149.70): E

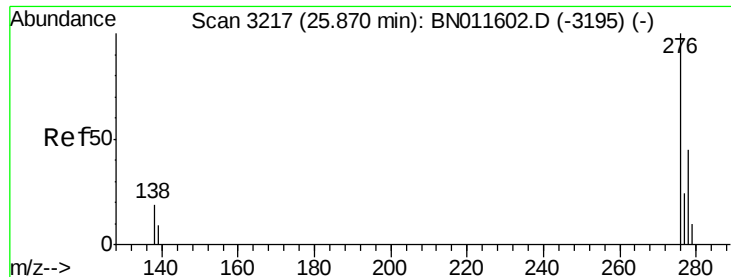
Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E



Time-->





#35

Indeno(1,2,3-cd)pyrene

Concen: 0.368 ng

RT: 25.87 min Scan# 3217

Delta R.T. 0.00 min

Lab File: BN011616.D

Acq: 25 Aug 2020 15:24

Instrument :

BNA\_N

ClientSampleId :

CS-3MSD

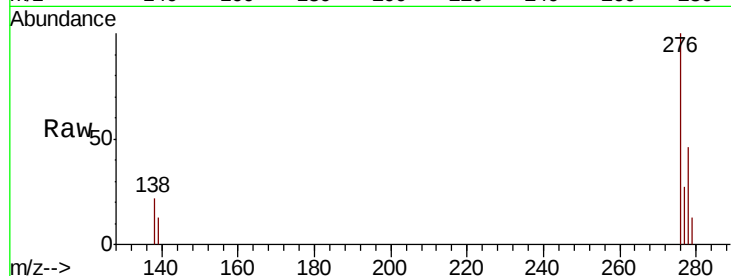
Tot Ion:276 Resp: 23682

Ion Ratio Lower Upper

276 100

138 20.6 0.0 0.0#

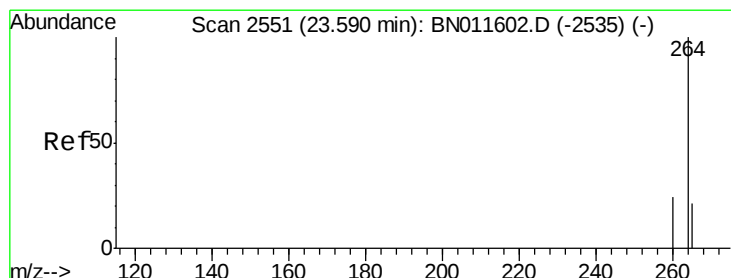
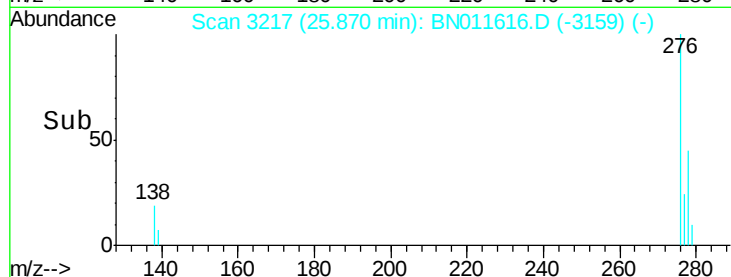
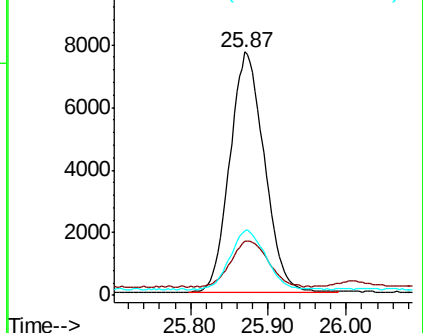
277 25.2 0.0 0.0#



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#36

Perylene-d12

Concen: 0.400 ng

RT: 23.59 min Scan# 2552

Delta R.T. 0.00 min

Lab File: BN011616.D

Acq: 25 Aug 2020 15:24

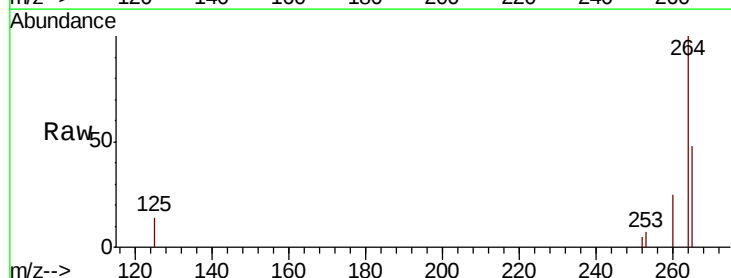
Tgt Ion:264 Resp: 17630

Ion Ratio Lower Upper

264 100

260 24.6 19.6 29.4

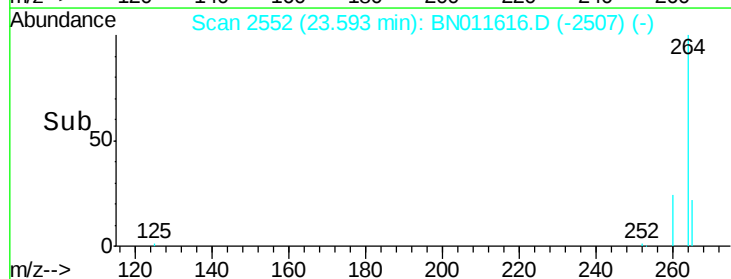
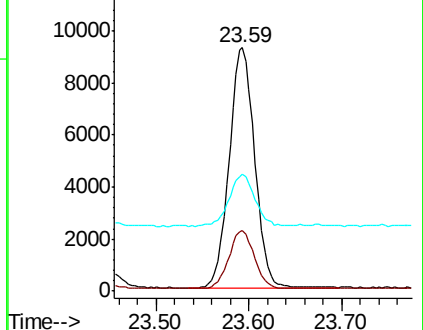
265 47.9 40.7 61.1

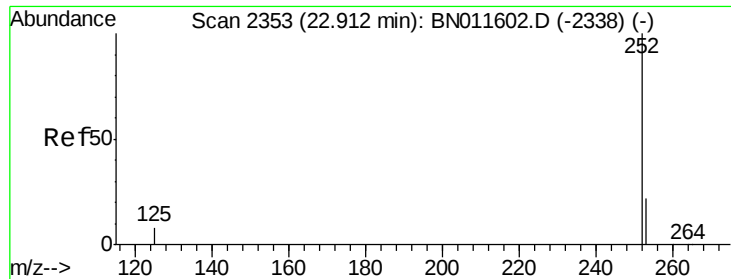


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#37

Benzo(b)fluoranthene

Concen: 0.295 ng

RT: 22.92 min Scan# 2354

Delta R.T. 0.00 min

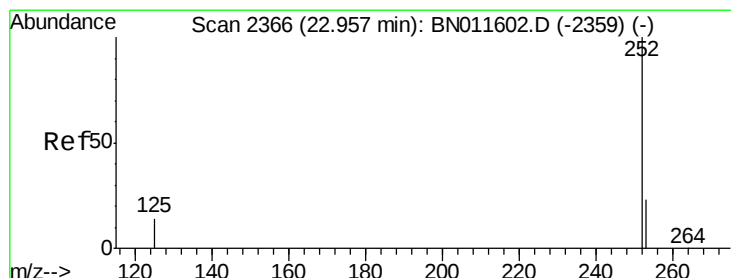
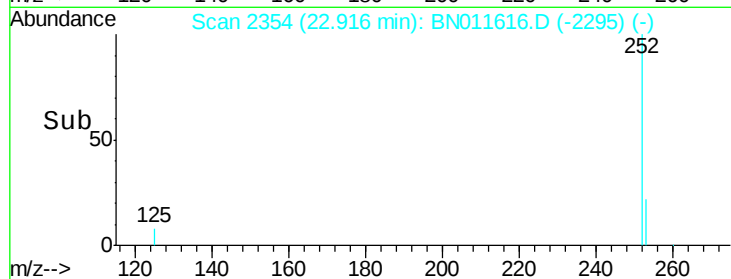
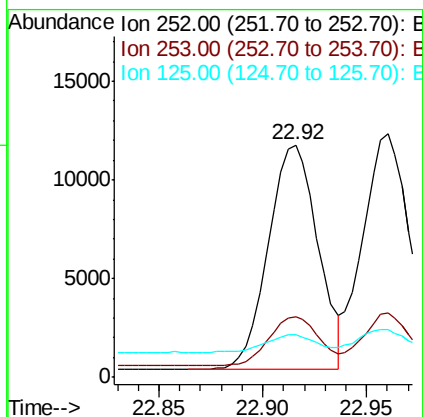
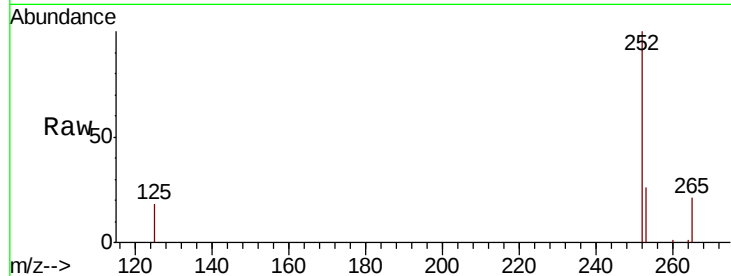
Lab File: BN011616.D

Acq: 25 Aug 2020 15:24

Instrument :  
BNA\_N  
ClientSampleId :  
CS-3MSD

Tot Ion:252 Resp: 18850

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 26.3  | 21.0  | 31.6  |
| 125 | 18.3  | 11.0  | 16.6# |



#38

Benzo(k)fluoranthene

Concen: 0.297 ng

RT: 22.96 min Scan# 2367

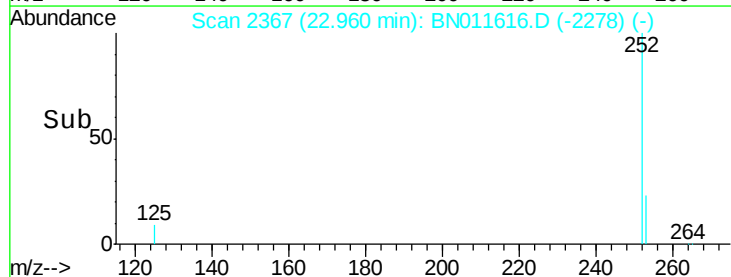
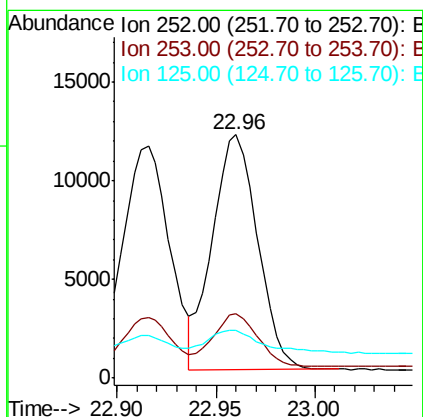
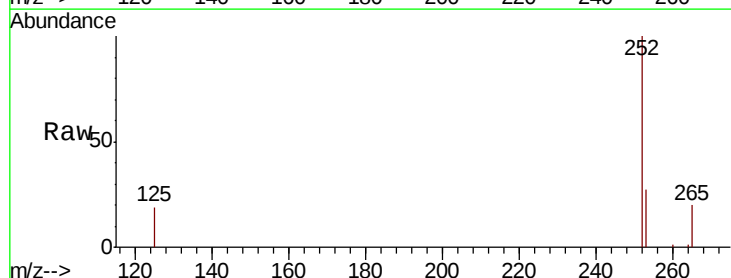
Delta R.T. 0.00 min

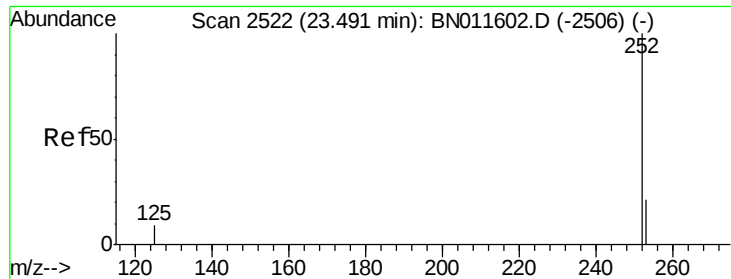
Lab File: BN011616.D

Acq: 25 Aug 2020 15:24

Tgt Ion:252 Resp: 18882

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 26.7  | 21.2  | 31.8  |
| 125 | 19.4  | 14.6  | 21.8  |





#39

Benzo(a)pyrene

Concen: 0.293 ng

RT: 23.49 min Scan# 2523

Delta R.T. 0.00 min

Lab File: BN011616.D

Acq: 25 Aug 2020 15:24

Instrument :

BNA\_N

ClientSampleId :

CS-3MSD

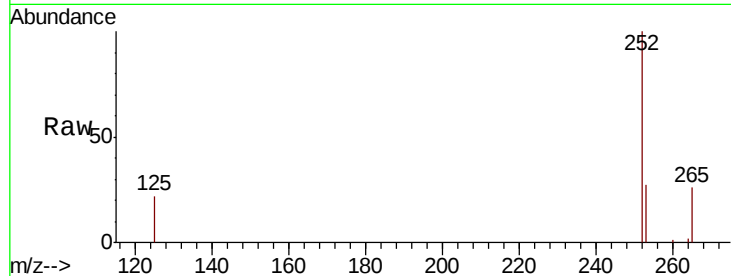
Tot Ion:252 Resp: 17439

Ion Ratio Lower Upper

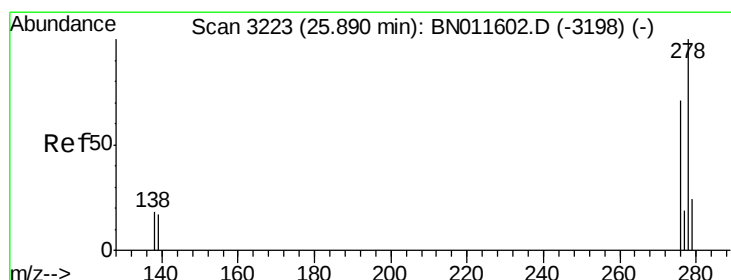
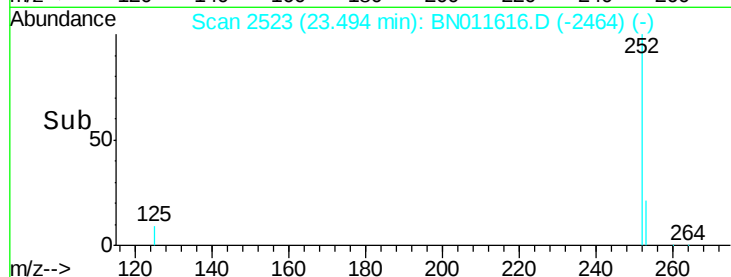
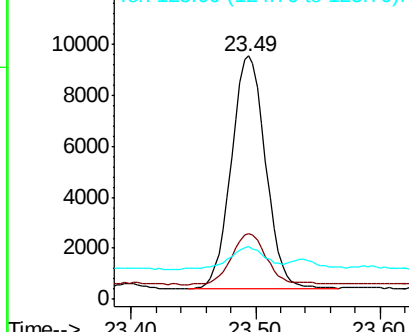
252 100

253 26.8 21.2 31.8

125 21.8 12.1 18.1#



Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E



#40

Dibenzo(a,h)anthracene

Concen: 0.319 ng

RT: 25.89 min Scan# 3223

Delta R.T. 0.00 min

Lab File: BN011616.D

Acq: 25 Aug 2020 15:24

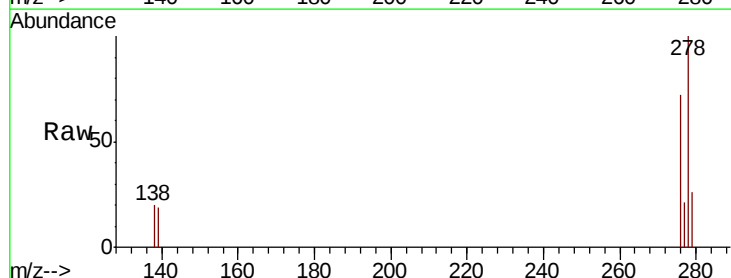
Tgt Ion:278 Resp: 19871

Ion Ratio Lower Upper

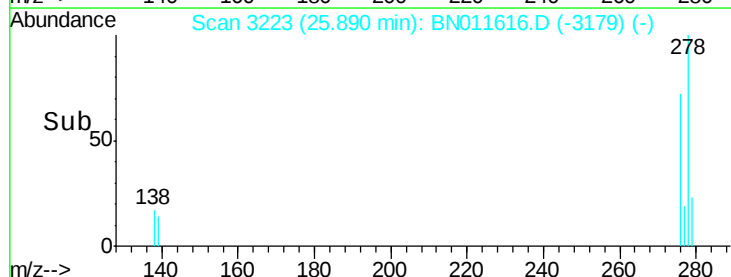
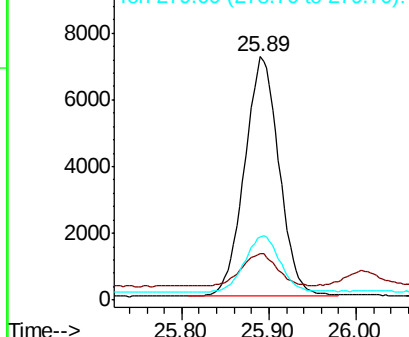
278 100

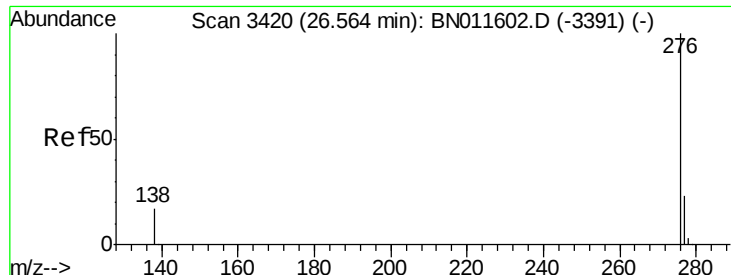
139 19.2 16.6 25.0

279 26.0 21.4 32.2



Abundance Ion 278.00 (277.70 to 278.70): E  
Ion 139.00 (138.70 to 139.70): E  
Ion 279.00 (278.70 to 279.70): E





#41

Benzo(a,h,i)perylene

Concen: 0.338 ng

RT: 26.56 min Scan# 3420

Delta R.T. 0.00 min

Lab File: BN011616.D

Acq: 25 Aug 2020 15:24

Instrument :

BNA\_N

ClientSampleId :

CS-3MSD

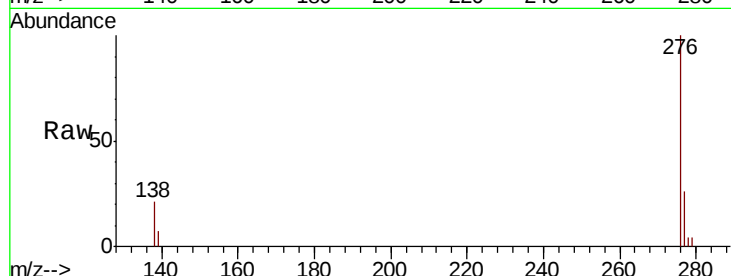
Tot Ion: 276 Resp: 20388

Ion Ratio Lower Upper

276 100

277 26.4 20.5 30.7

138 20.7 17.8 26.6



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

