

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN082120\  
 Data File : BN011575.D  
 Acq On : 22 Aug 2020 07:16  
 Operator : CG/JU  
 Sample : L3717-05  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 BP-VPB179-GW-798-800

Quant Time: Aug 22 07:51:05 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN082120.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sat Aug 22 04:52:07 2020  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.40  | 152  | 1578     | 0.40 | ng    | 0.00     |
| 7) Naphthalene-d8         | 10.14 | 136  | 6259     | 0.40 | ng    | -0.01    |
| 13) Acenaphthene-d10      | 14.03 | 164  | 3851     | 0.40 | ng    | 0.00     |
| 19) Phenanthrene-d10      | 16.79 | 188  | 9237     | 0.40 | ng    | 0.00     |
| 29) Chrysene-d12          | 21.01 | 240  | 9840     | 0.40 | ng    | 0.00     |
| 36) Perylene-d12          | 23.10 | 264  | 9893     | 0.40 | ng    | -0.01    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 4) 2-Fluorophenol           | 5.06  | 112  | 843      | 0.25 | ng    | 0.00     |
| 5) Phenol-d6                | 6.64  | 99   | 478      | 0.14 | ng    | 0.00     |
| 8) Nitrobenzene-d5          | 8.55  | 82   | 1881     | 0.46 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10 | 11.74 | 152  | 2935     | 0.26 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol    | 15.55 | 330  | 827      | 0.43 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl        | 12.64 | 172  | 9186     | 0.58 | ng    | -0.01    |
| 27) Fluoranthene-d10        | 18.83 | 212  | 10942    | 0.35 | ng    | 0.00     |
| 31) Terphenyl-d14           | 19.45 | 244  | 17491    | 0.68 | ng    | 0.00     |

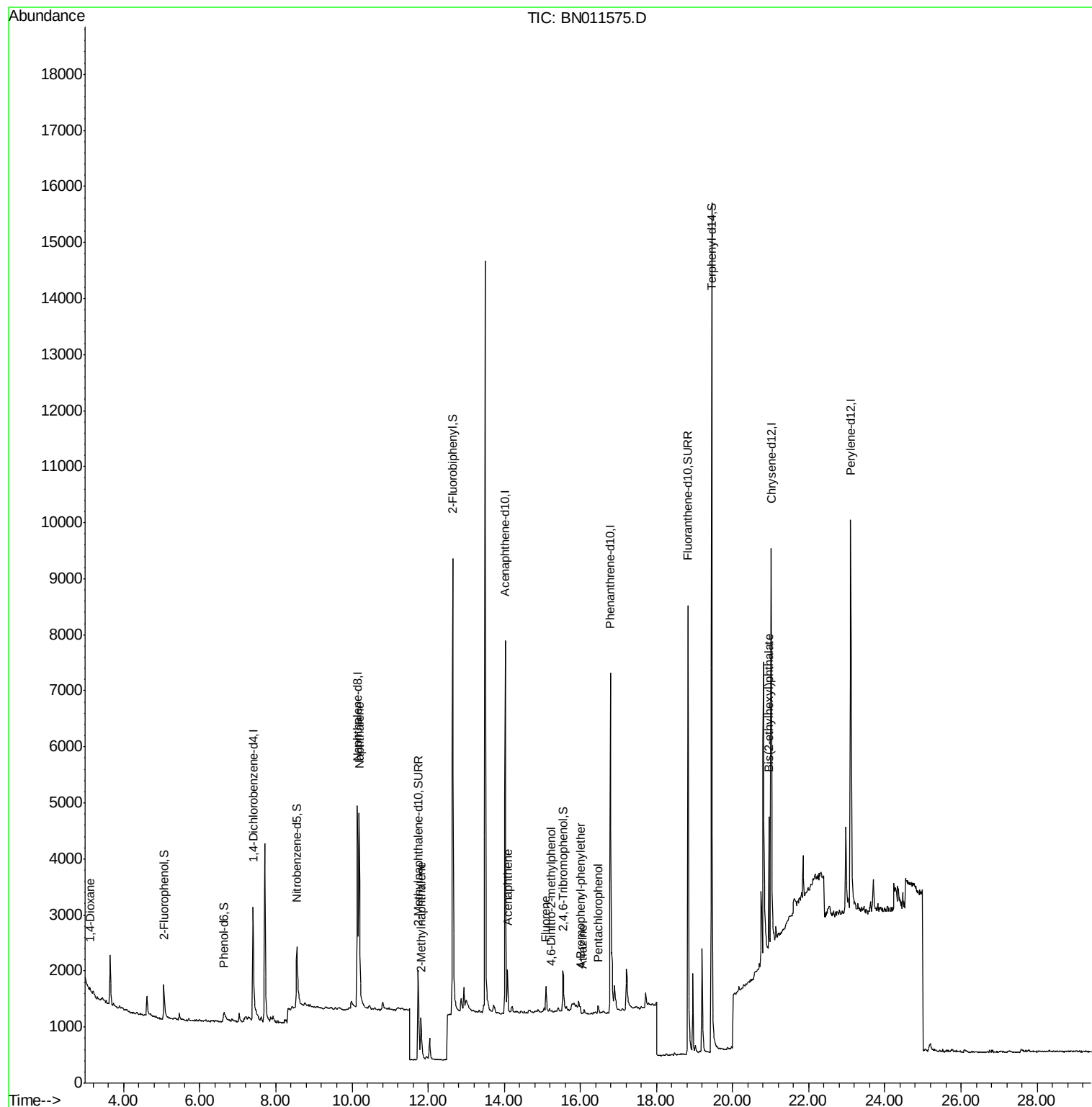
| Target Compounds               | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|--------------------------------|-------|------|----------|-------|-------|--------|
| 2) 1,4-Dioxane                 | 3.12  | 88   | 103      | 0.048 | ng    | # 100  |
| 9) Naphthalene                 | 10.19 | 128  | 5419     | 0.299 | ng    | 99     |
| 12) 2-Methylnaphthalene        | 11.82 | 142  | 681      | 0.055 | ng    | 96     |
| 17) Acenaphthene               | 14.09 | 154  | 368      | 0.029 | ng    | 95     |
| 18) Fluorene                   | 15.09 | 166  | 391      | 0.023 | ng    | 98     |
| 20) 4,6-Dinitro-2-methylphenol | 15.23 | 198  | 28       | 0.190 | ng    | # 51   |
| 21) 4-Bromophenyl-phenylether  | 16.02 | 248  | 174      | 0.086 | ng    | # 64   |
| 23) Atrazine                   | 16.07 | 200  | 244      | 0.051 | ng    | # 7    |
| 24) Pentachlorophenol          | 16.47 | 266  | 123      | 0.055 | ng    | # 87   |
| 34) Bis(2-ethylhexyl)phthalate | 20.95 | 149  | 2310     | 0.159 | ng    | 99     |

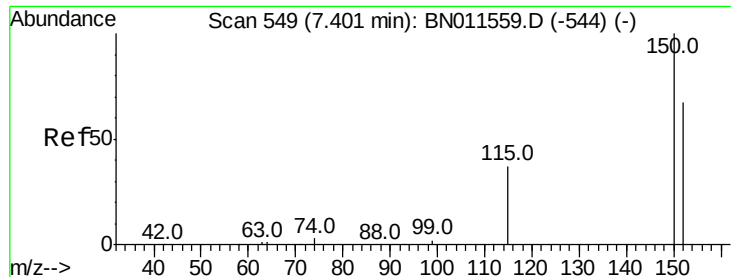
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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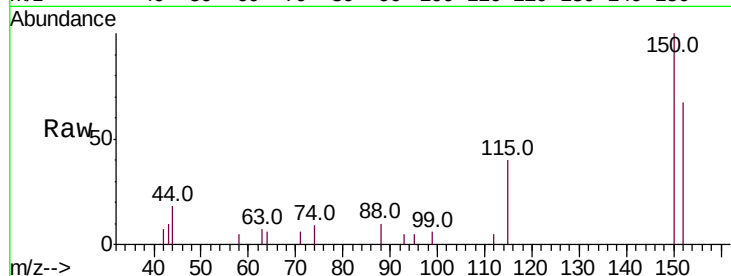


#1

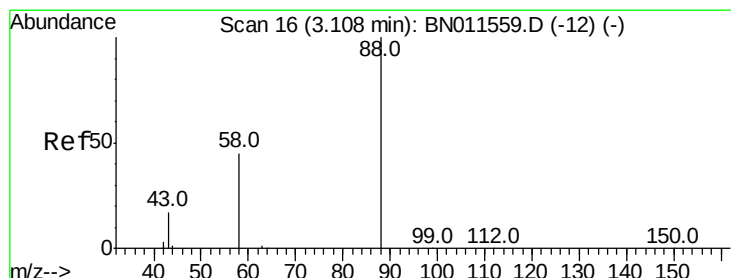
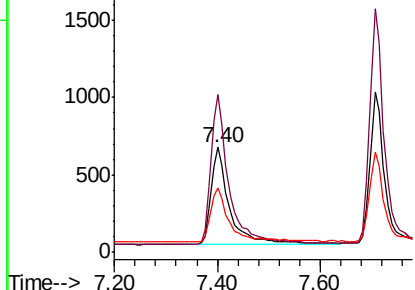
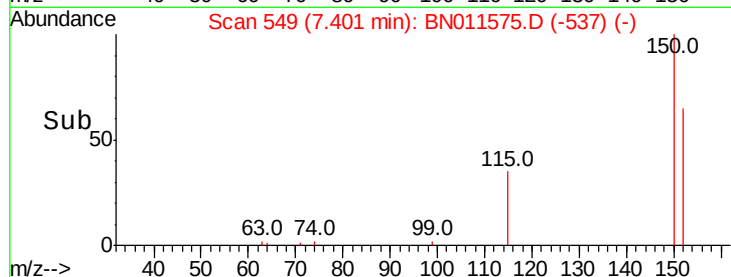
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.40 min Scan# 549  
Delta R.T. -0.00 min  
Lab File: BN011575.D  
Acq: 22 Aug 2020 07:16

Instrument :  
BNA\_N  
ClientSampleId :  
BP-VPB179-GW-798-800

Tot Ion:152 Resp: 1578  
Ion Ratio Lower Upper  
152 100  
150 150.2 117.1 175.7  
115 60.7 48.7 73.1



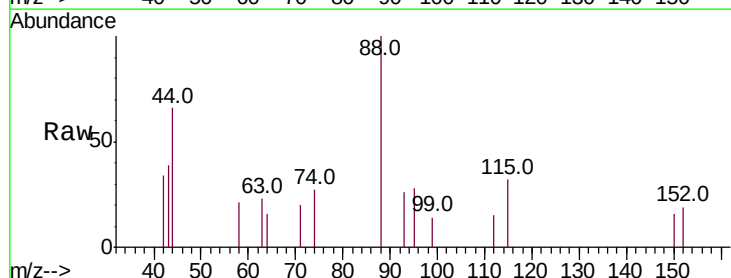
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



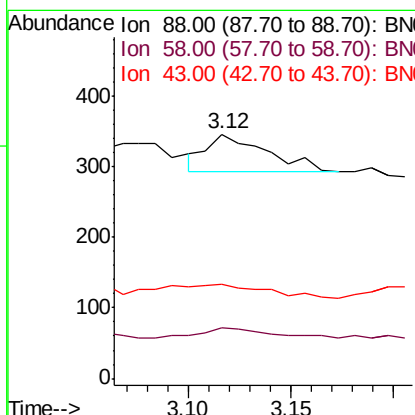
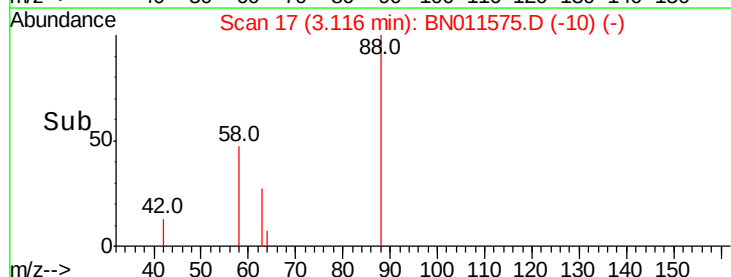
#2

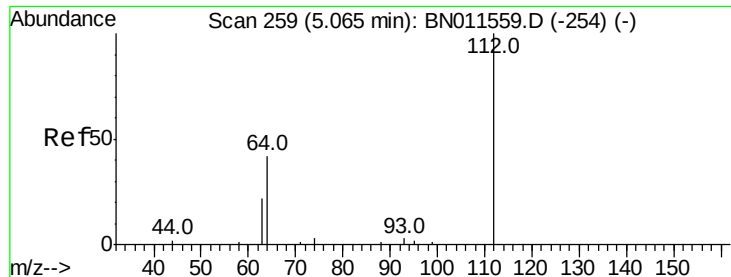
1,4-Dioxane  
Concen: 0.048 ng  
RT: 3.12 min Scan# 17  
Delta R.T. 0.01 min  
Lab File: BN011575.D  
Acq: 22 Aug 2020 07:16

Tgt Ion: 88 Resp: 103  
Ion Ratio Lower Upper  
88 100  
58 27.2 0.0 0.0#  
43 67.0 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





#4

2-Fluorophenol

Concen: 0.250 ng

RT: 5.06 min Scan# 258

Delta R.T. -0.01 min

Lab File: BN011575.D

Acq: 22 Aug 2020 07:16

Instrument :

BNA\_N

ClientSampleId :

BP-VPB179-GW-798-800

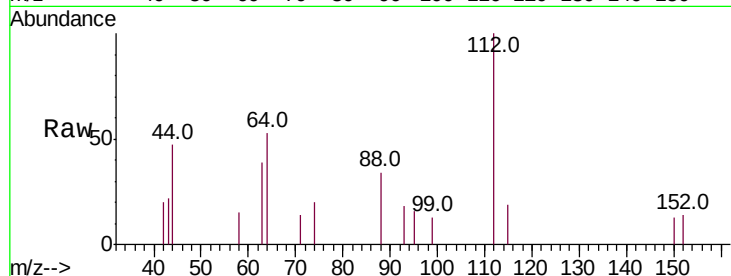
Tot Ion:112 Resp: 843

Ion Ratio Lower Upper

112 100

64 43.7 33.9 50.9

63 24.4 17.7 26.5



Abundance Ion 112.00 (111.70 to 112.70): B

Ion 64.00 (63.70 to 64.70): BNO

Ion 63.00 (62.70 to 63.70): BNO

500

400

300

200

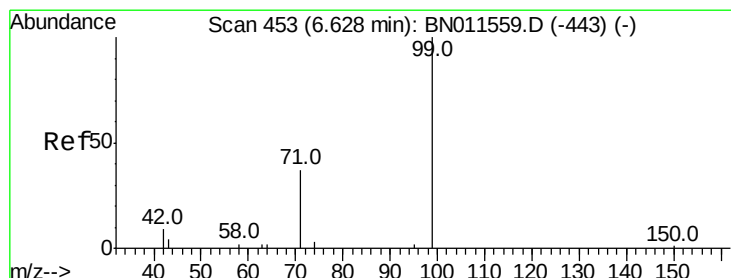
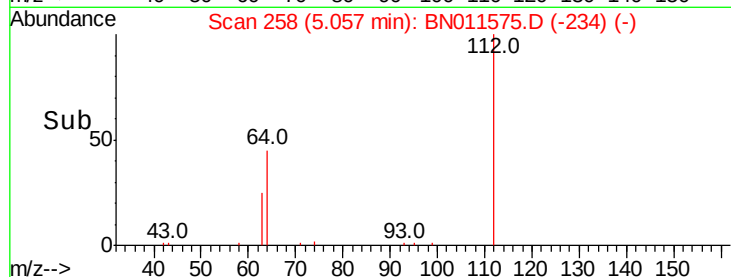
100

0

5.06

5.00 5.10 5.20

Time-->



#5

Phenol-d6

Concen: 0.141 ng

RT: 6.64 min Scan# 454

Delta R.T. 0.01 min

Lab File: BN011575.D

Acq: 22 Aug 2020 07:16

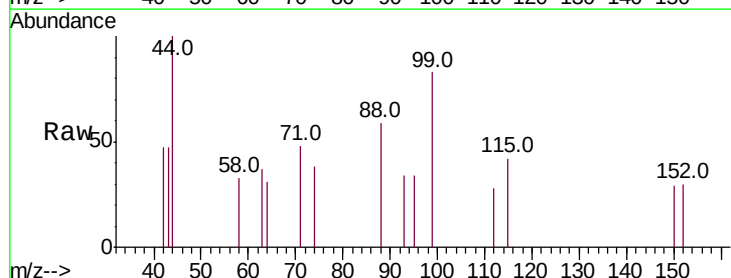
Tgt Ion: 99 Resp: 478

Ion Ratio Lower Upper

99 100

42 9.0 9.0 13.4

71 32.0 30.4 45.6



Abundance Ion 99.00 (98.70 to 99.70): BNO

Ion 42.00 (41.70 to 42.70): BNO

Ion 71.00 (70.70 to 71.70): BNO

150

100

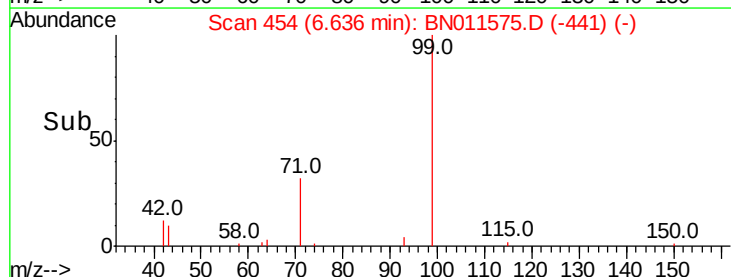
50

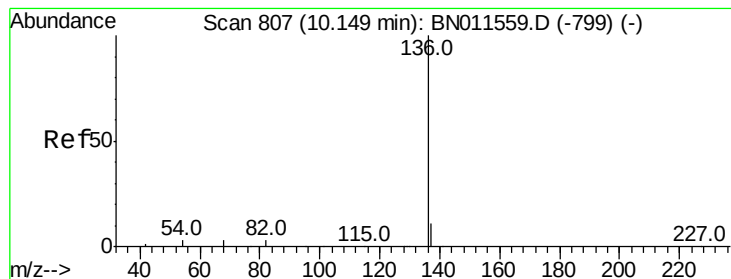
0

6.64

6.50 6.60 6.70 6.80

Time-->





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.14 min Scan# 806

Delta R.T. -0.01 min

Lab File: BN011575.D

Acq: 22 Aug 2020 07:16

Instrument :

BNA\_N

ClientSampleId :

BP-VPB179-GW-798-800

Tot Ion:136 Resp: 6259

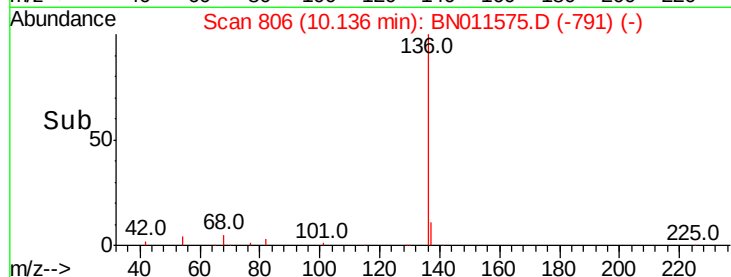
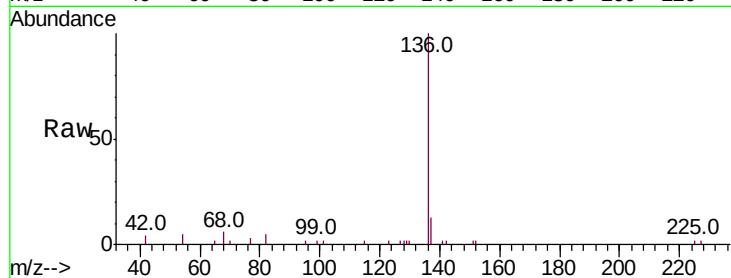
Ion Ratio Lower Upper

136 100

137 12.6 11.0 16.4

54 5.4 4.3 6.5

68 6.3 4.9 7.3

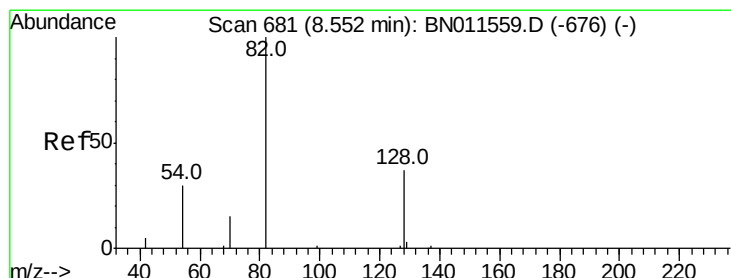
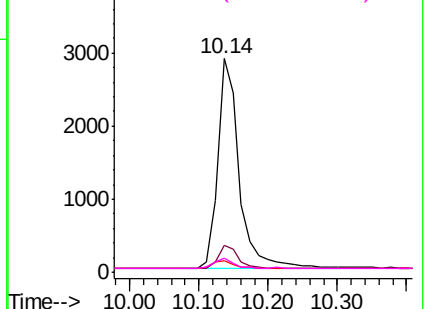


Abundance Ion 136.00 (135.70 to 136.70): E

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



#8

Nitrobenzene-d5

Concen: 0.457 ng

RT: 8.55 min Scan# 681

Delta R.T. -0.00 min

Lab File: BN011575.D

Acq: 22 Aug 2020 07:16

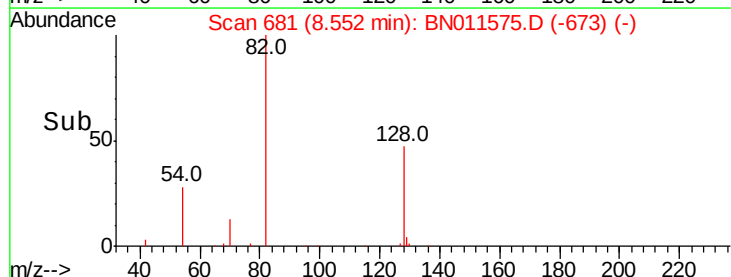
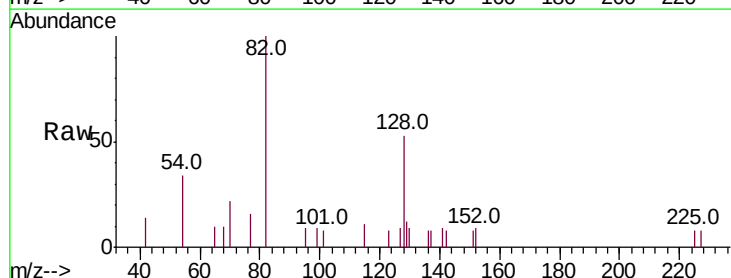
Tgt Ion: 82 Resp: 1881

Ion Ratio Lower Upper

82 100

128 52.9 41.7 62.5

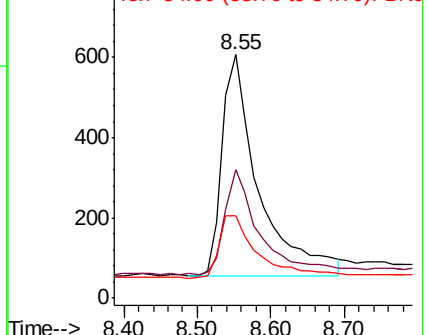
54 34.1 34.4 51.6#

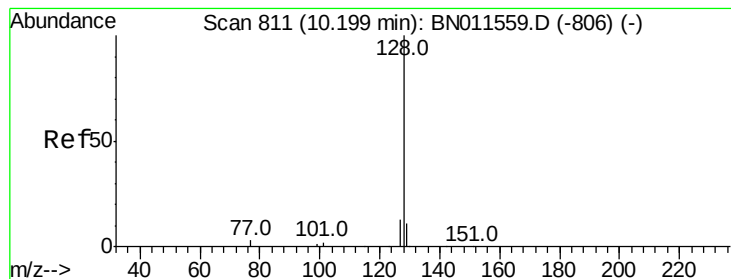


Abundance Ion 82.00 (81.70 to 82.70): BNC

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BNC





#9

Naphthalene

Concen: 0.299 ng

RT: 10.19 min Scan# 810

Delta R.T. -0.01 min

Lab File: BN011575.D

Acq: 22 Aug 2020 07:16

Instrument :

BNA\_N

ClientSampleId :

BP-VPB179-GW-798-800

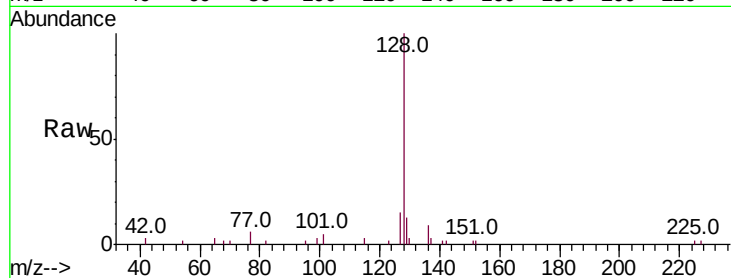
Tot Ion:128 Resp: 5419

Ion Ratio Lower Upper

128 100

129 13.2 10.8 16.2

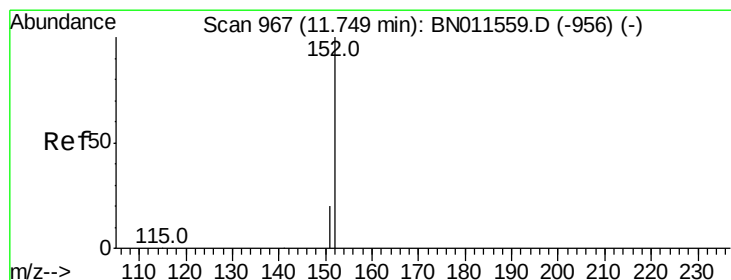
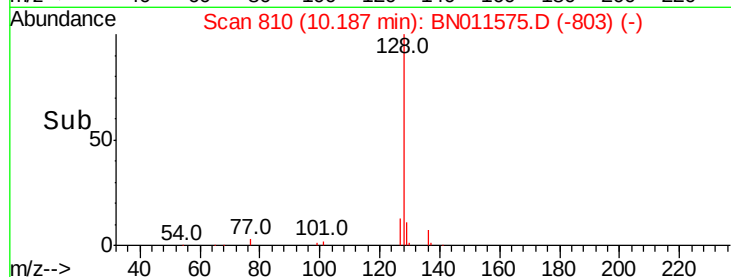
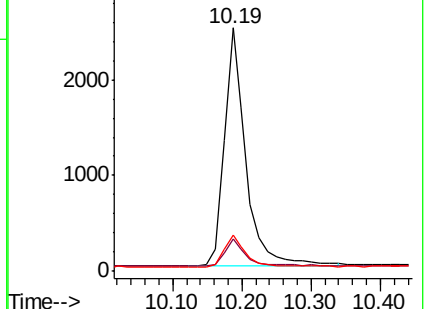
127 15.1 12.3 18.5



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: 0.262 ng

RT: 11.74 min Scan# 965

Delta R.T. -0.01 min

Lab File: BN011575.D

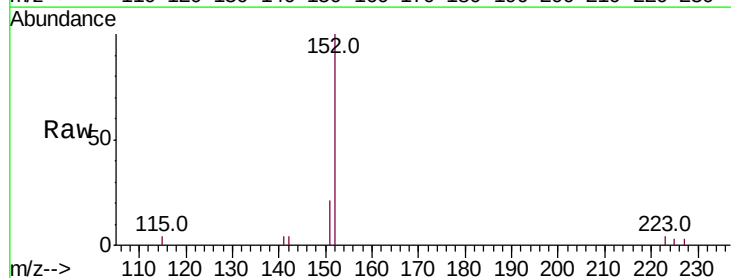
Acq: 22 Aug 2020 07:16

Tgt Ion:152 Resp: 2935

Ion Ratio Lower Upper

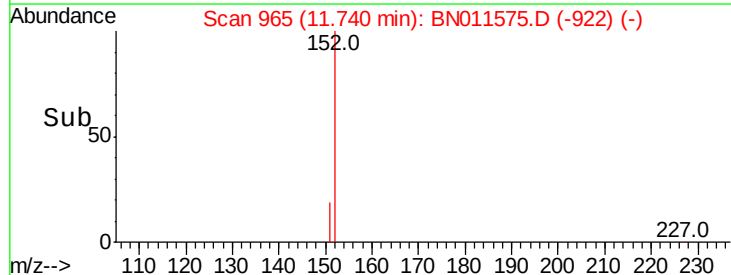
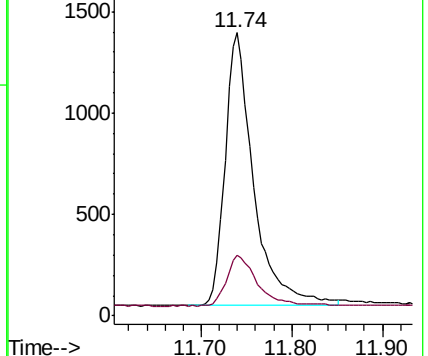
152 100

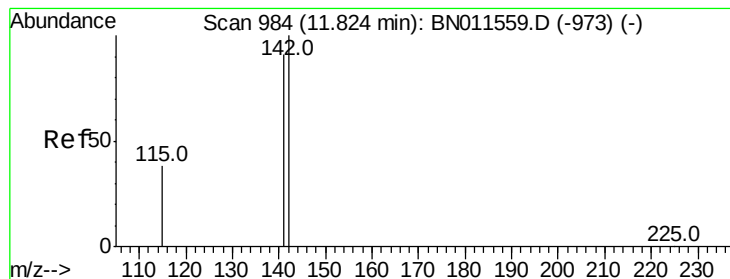
151 20.5 16.6 24.8



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E





#12

2-Methylnaphthalene

Concen: 0.055 ng

RT: 11.82 min Scan# 982

Delta R.T. -0.01 min

Lab File: BN011575.D

Acq: 22 Aug 2020 07:16

Instrument :

BNA\_N

ClientSampleId :

BP-VPB179-GW-798-800

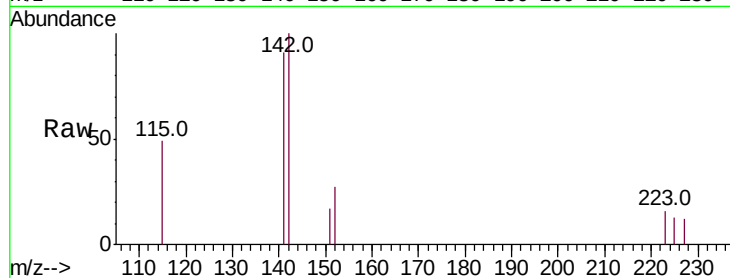
Tot Ion:142 Resp: 681

Ion Ratio Lower Upper

142 100

141 90.6 73.0 109.6

115 48.8 33.4 50.0

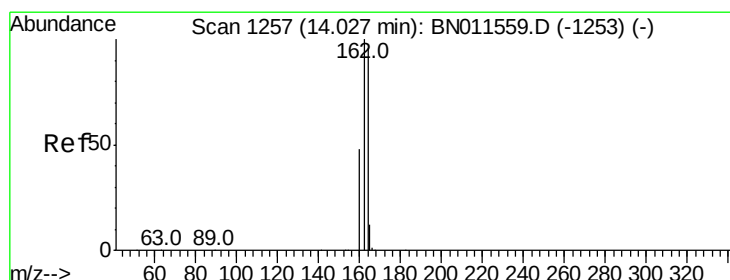
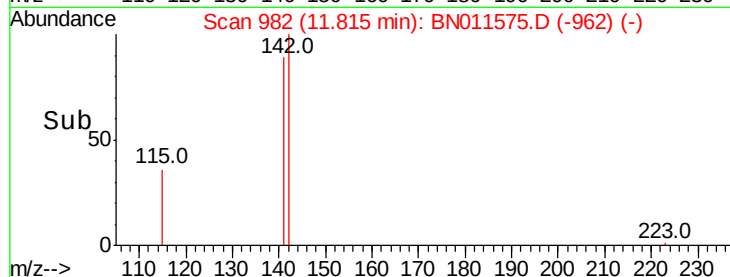
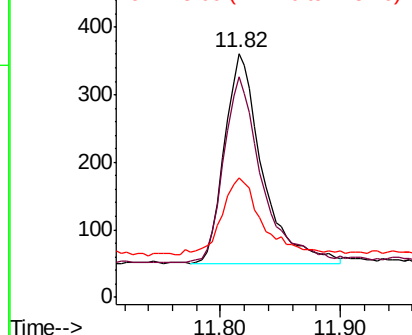


Abundance

Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.03 min Scan# 1257

Delta R.T. -0.00 min

Lab File: BN011575.D

Acq: 22 Aug 2020 07:16

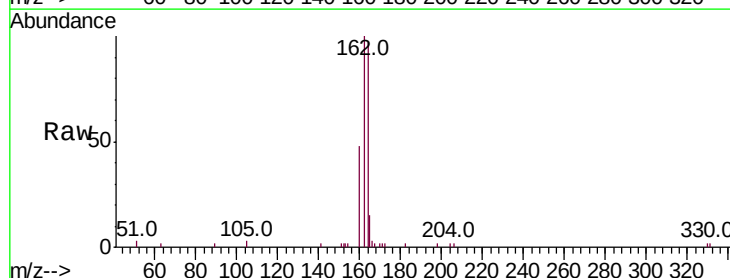
Tgt Ion:164 Resp: 3851

Ion Ratio Lower Upper

164 100

162 102.9 83.7 125.5

160 49.0 41.1 61.7

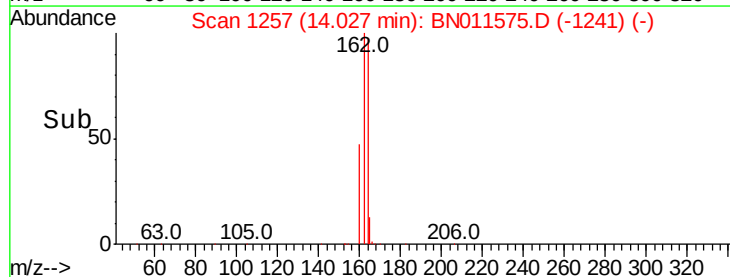
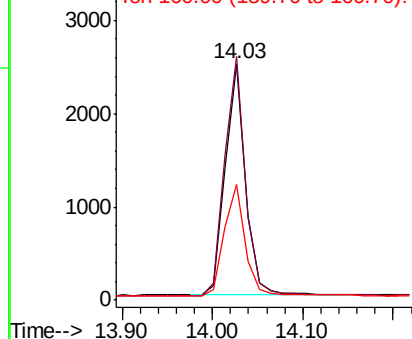


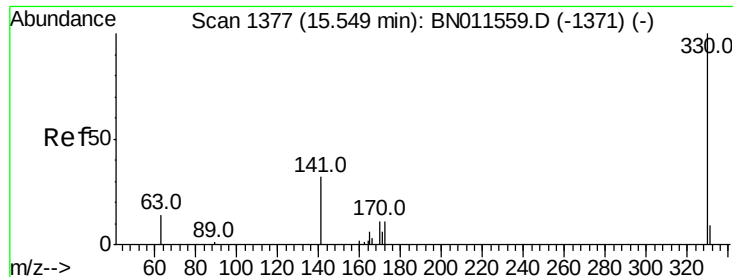
Abundance

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

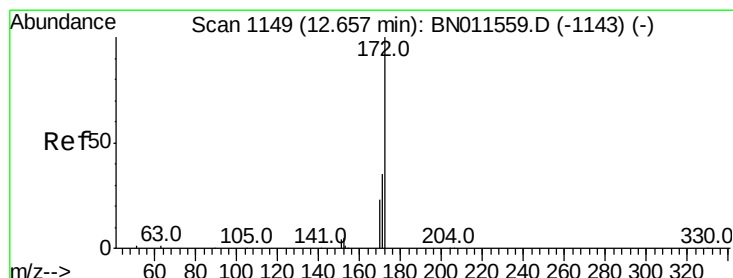
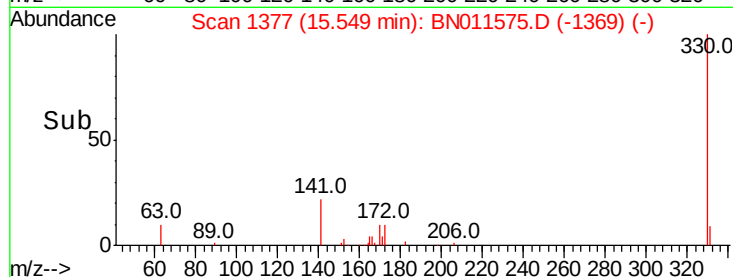
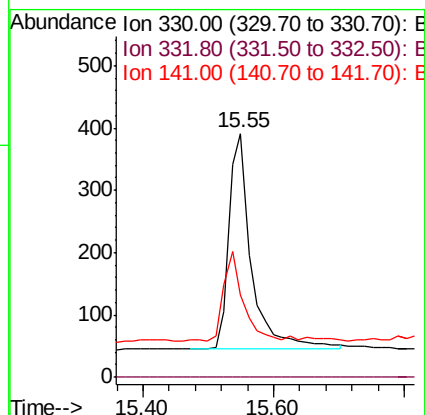
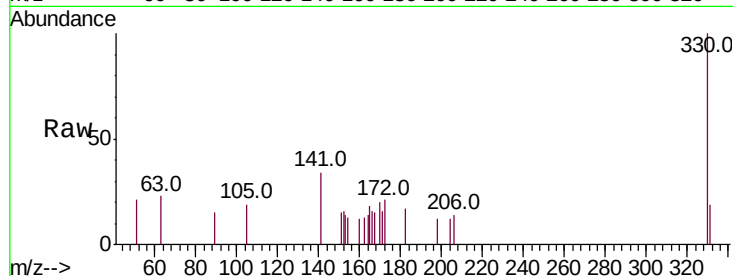




#14  
 2,4,6-Tribromophenol  
 Concen: 0.431 ng  
 RT: 15.55 min Scan# 1377  
 Delta R.T. -0.00 min  
 Lab File: BN011575.D  
 Acq: 22 Aug 2020 07:16

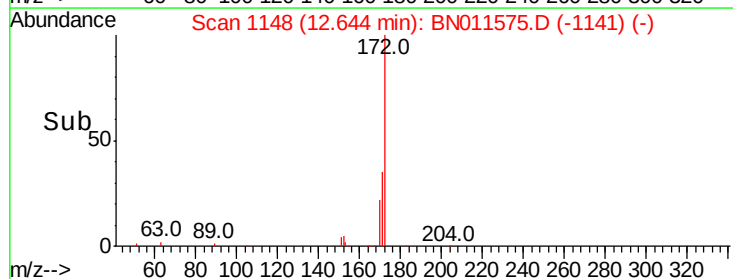
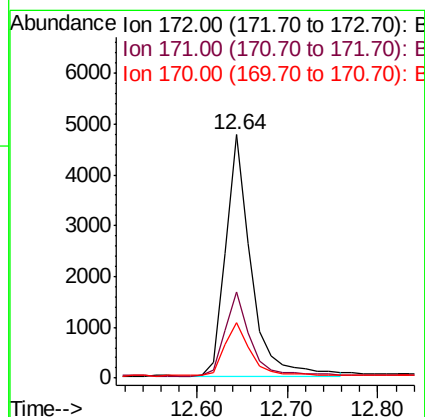
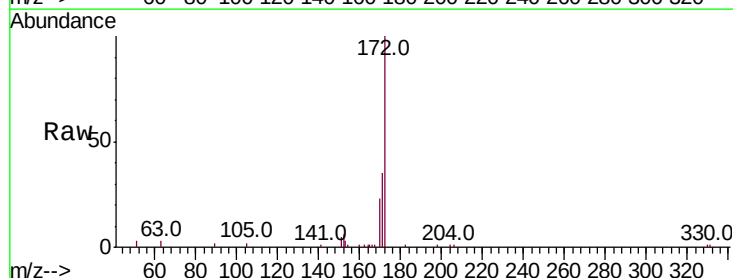
Instrument :  
 BNA\_N  
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 BP-VPB179-GW-798-800

Tot Ion:330 Resp: 827  
 Ion Ratio Lower Upper  
 330 100  
 332 0.0 0.0 0.0  
 141 35.4 34.6 52.0

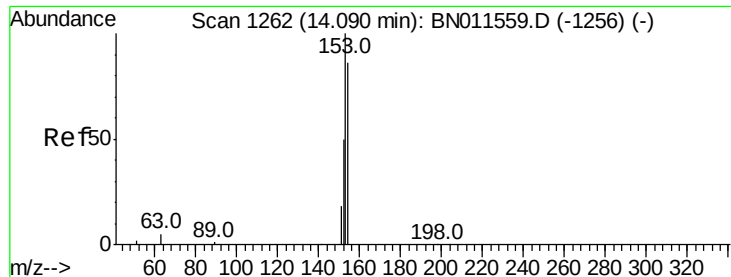


#15  
 2-Fluorobiphenyl  
 Concen: 0.580 ng  
 RT: 12.64 min Scan# 1148  
 Delta R.T. -0.01 min  
 Lab File: BN011575.D  
 Acq: 22 Aug 2020 07:16

Tgt Ion:172 Resp: 9186  
 Ion Ratio Lower Upper  
 172 100  
 171 35.4 29.4 44.0  
 170 22.8 20.1 30.1







#17

Acenaphthene

Concen: 0.029 ng

RT: 14.09 min Scan# 1262

Delta R.T. -0.00 min

Lab File: BN011575.D

Acq: 22 Aug 2020 07:16

Instrument :

BNA\_N

ClientSampleId :

BP-VPB179-GW-798-800

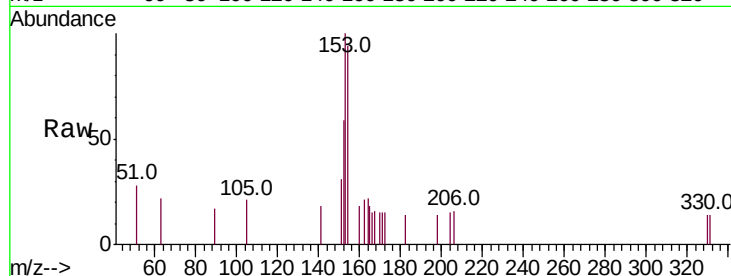
Tot Ion:154 Resp: 368

Ion Ratio Lower Upper

154 100

153 121.5 91.8 137.8

152 59.0 46.3 69.5



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

14.09

300

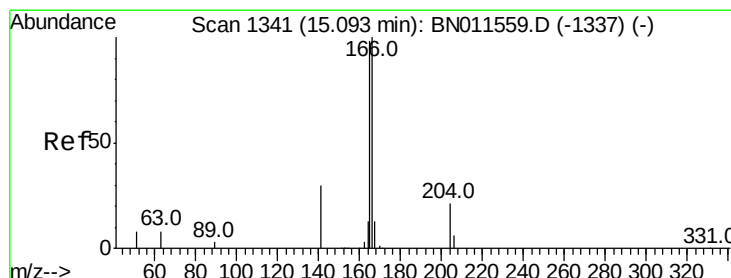
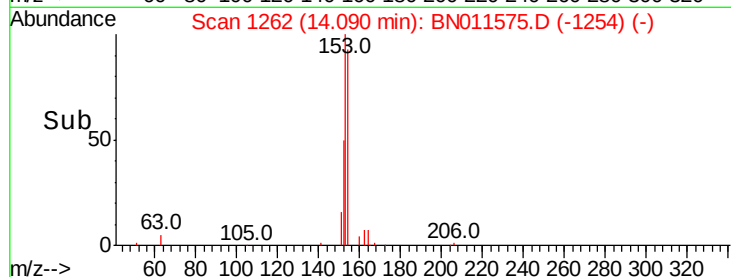
200

100

0

14.05 14.10 14.15

Time-->



#18

Fluorene

Concen: 0.023 ng

RT: 15.09 min Scan# 1341

Delta R.T. -0.00 min

Lab File: BN011575.D

Acq: 22 Aug 2020 07:16

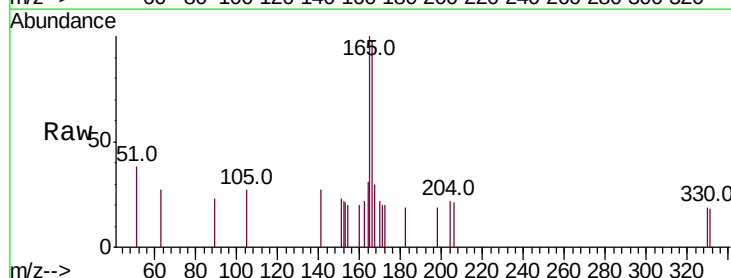
Tgt Ion:166 Resp: 391

Ion Ratio Lower Upper

166 100

165 100.3 78.2 117.2

167 12.8 10.7 16.1



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

15.09

300

250

200

150

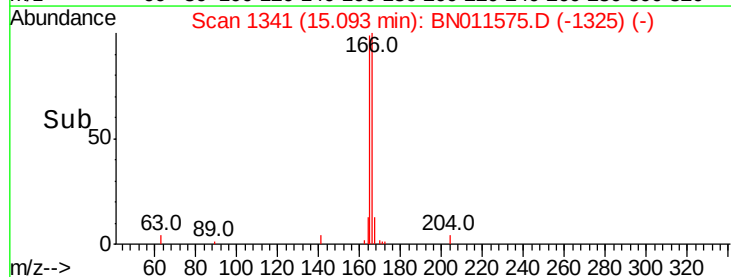
100

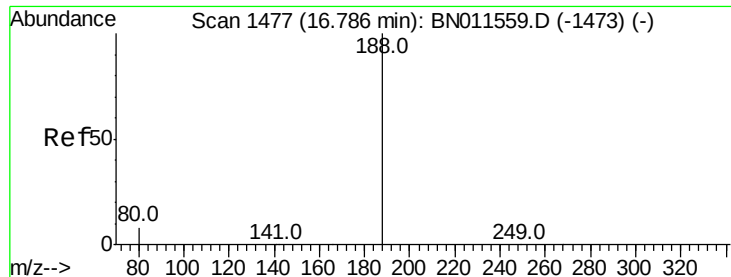
50

0

15.00 15.10 15.20 15.30

Time-->





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.79 min Scan# 1477

Delta R.T. -0.00 min

Lab File: BN011575.D

Acq: 22 Aug 2020 07:16

Instrument :

BNA\_N

ClientSampleId :

BP-VPB179-GW-798-800

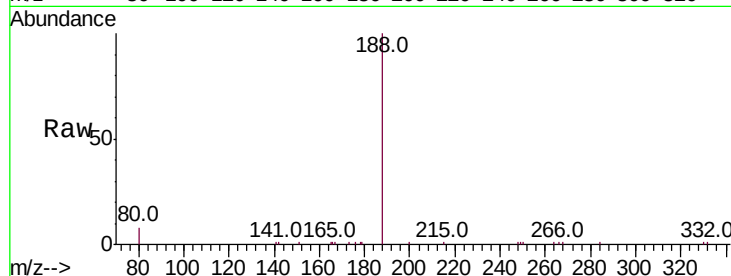
Tot Ion:188 Resp: 9237

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

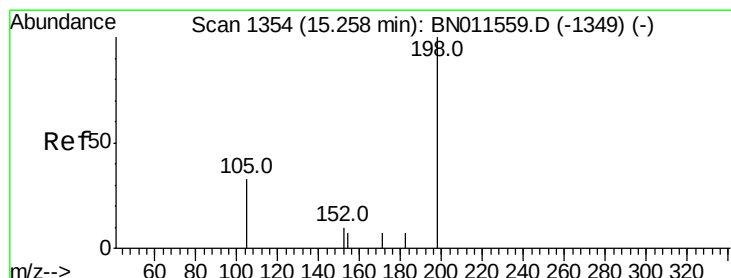
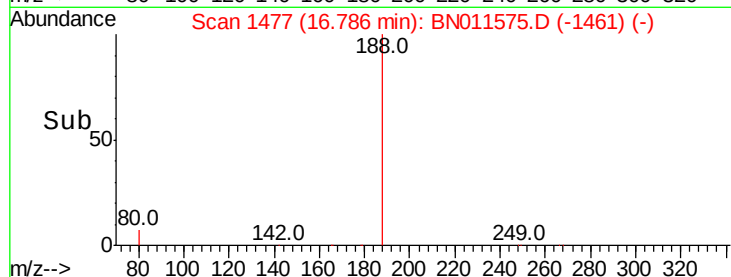
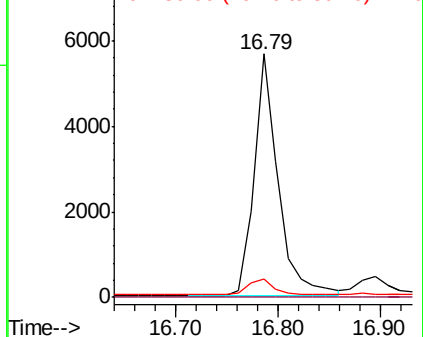
80 7.5 7.6 11.4#



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BNO

Ion 80.00 (79.70 to 80.70): BNO



#20

4,6-Dinitro-2-methylphenol

Concen: 0.190 ng

RT: 15.23 min Scan# 1352

Delta R.T. -0.02 min

Lab File: BN011575.D

Acq: 22 Aug 2020 07:16

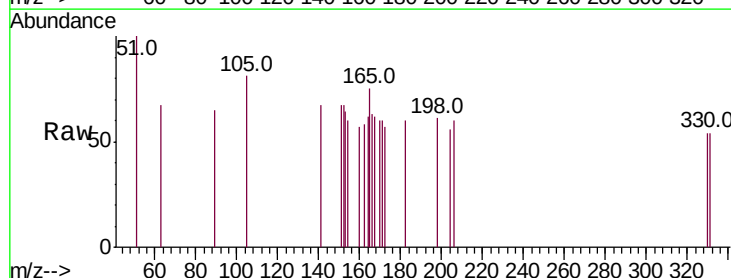
Tgt Ion:198 Resp: 28

Ion Ratio Lower Upper

198 100

51 164.7 89.4 134.2#

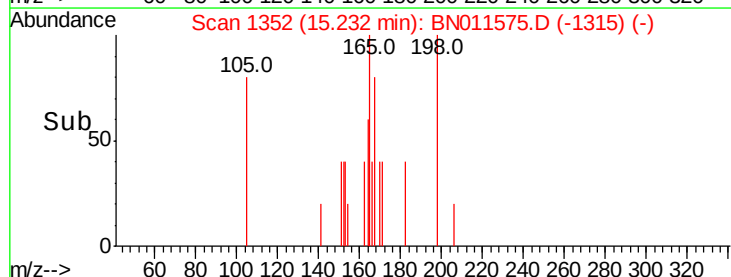
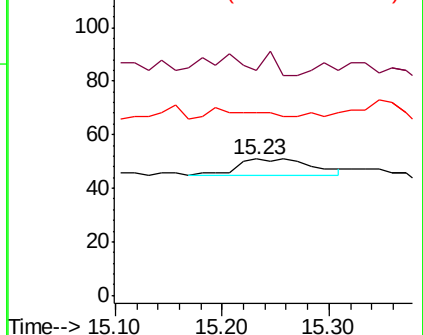
105 133.3 70.6 105.8#

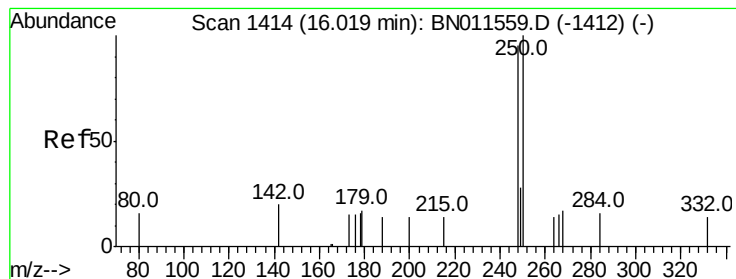


Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BNO

Ion 105.00 (104.70 to 105.70): E





#21

4-Bromophenyl-phenylether

Concen: 0.086 ng

RT: 16.02 min Scan# 1414

Delta R.T. -0.00 min

Lab File: BN011575.D

Acq: 22 Aug 2020 07:16

Instrument :

BNA\_N

ClientSampleId :

BP-VPB179-GW-798-800

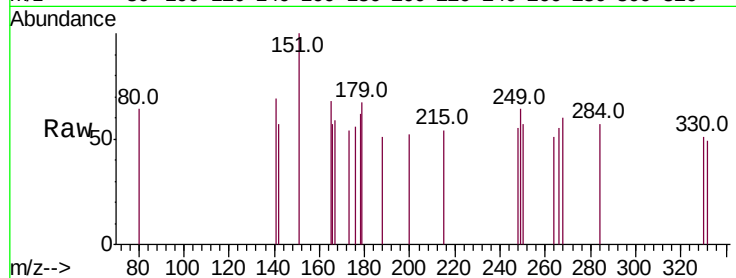
Tot Ion:248 Resp: 174

Ion Ratio Lower Upper

248 100

250 104.0 83.8 125.8

141 126.0 41.0 61.6#

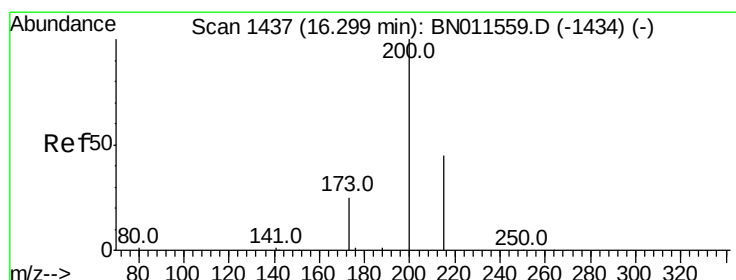
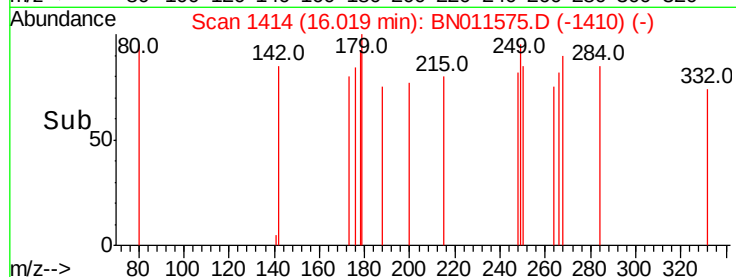
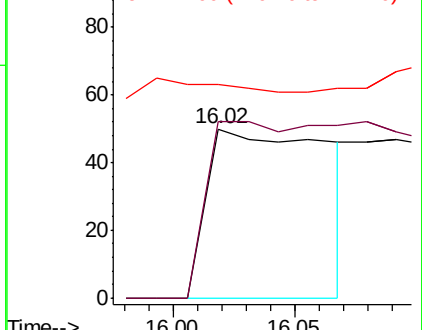


Abundance

Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E



#23

Atrazine

Concen: 0.051 ng

RT: 16.07 min Scan# 1418

Delta R.T. -0.23 min

Lab File: BN011575.D

Acq: 22 Aug 2020 07:16

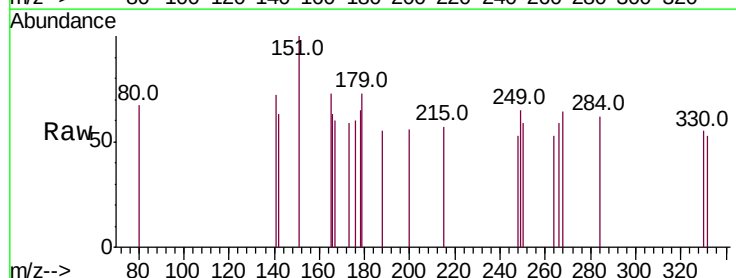
Tgt Ion:200 Resp: 244

Ion Ratio Lower Upper

200 100

173 106.3 27.7 41.5#

215 102.1 41.5 62.3#

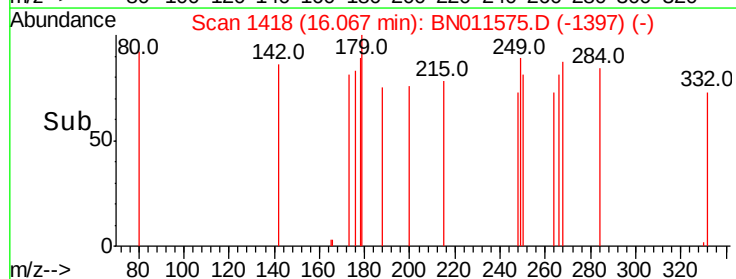
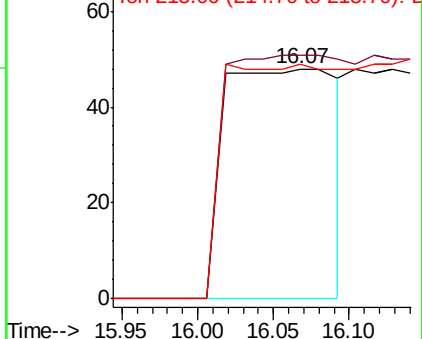


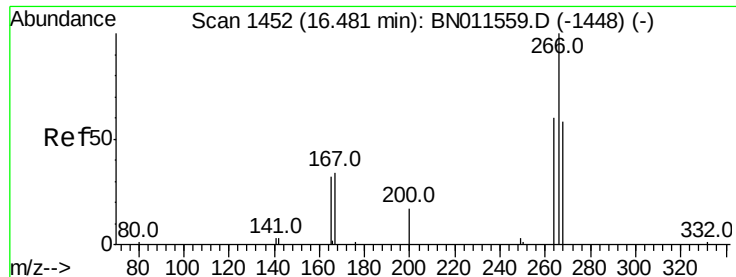
Abundance

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

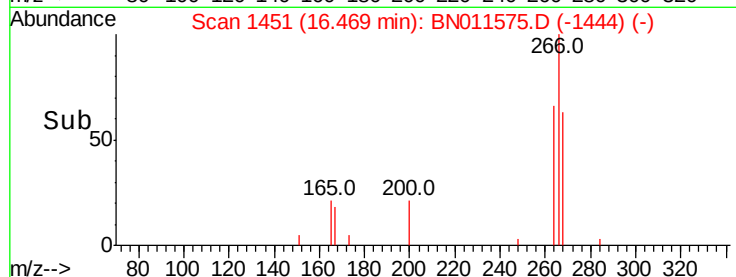
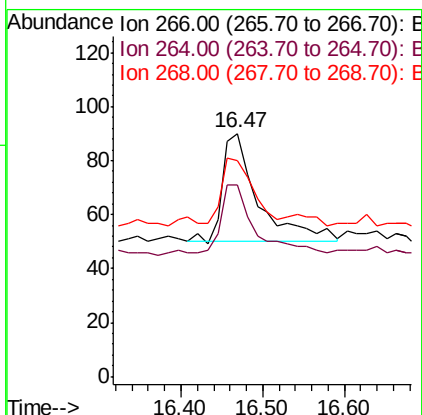
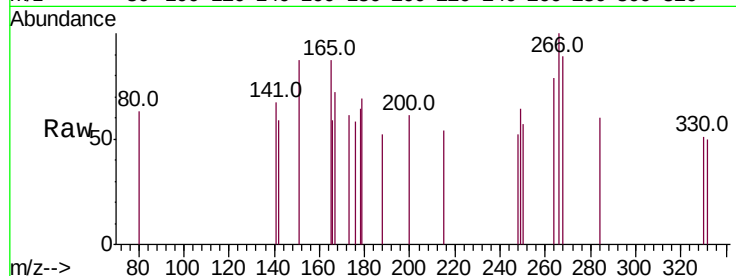




#24  
 Pentachlorophenol  
 Concen: 0.055 ng  
 RT: 16.47 min Scan# 1451  
 Delta R.T. -0.01 min  
 Lab File: BN011575.D  
 Acq: 22 Aug 2020 07:16

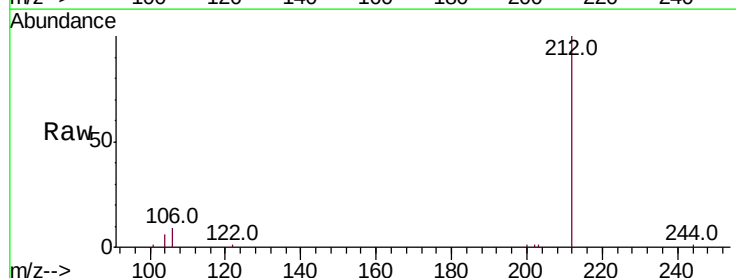
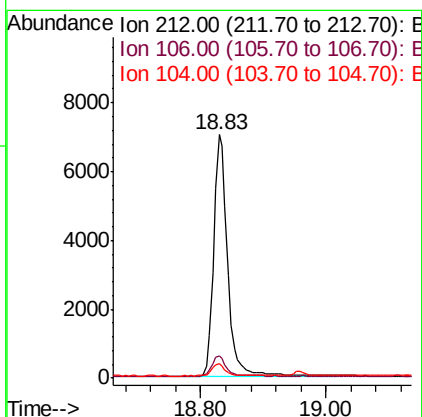
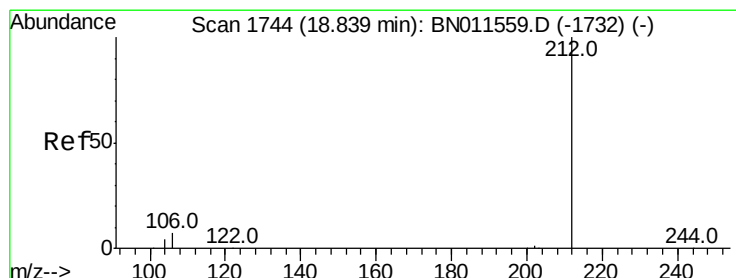
Instrument :  
 BNA\_N  
 ClientSampleId :  
 BP-VPB179-GW-798-800

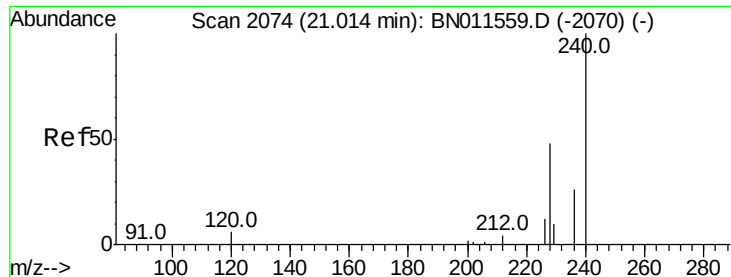
Tot Ion: 266 Resp: 123  
 Ion Ratio Lower Upper  
 266 100  
 264 55.3 48.7 73.1  
 268 49.6 51.0 76.6#



#27  
 Fluoranthene-d10  
 Concen: 0.352 ng  
 RT: 18.83 min Scan# 1742  
 Delta R.T. -0.01 min  
 Lab File: BN011575.D  
 Acq: 22 Aug 2020 07:16

Tgt Ion: 212 Resp: 10942  
 Ion Ratio Lower Upper  
 212 100  
 106 8.6 6.2 9.2  
 104 5.0 3.8 5.6





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.01 min Scan# 2074

Delta R.T. -0.00 min

Lab File: BN011575.D

Acq: 22 Aug 2020 07:16

Instrument :

BNA\_N

ClientSampleId :

BP-VPB179-GW-798-800

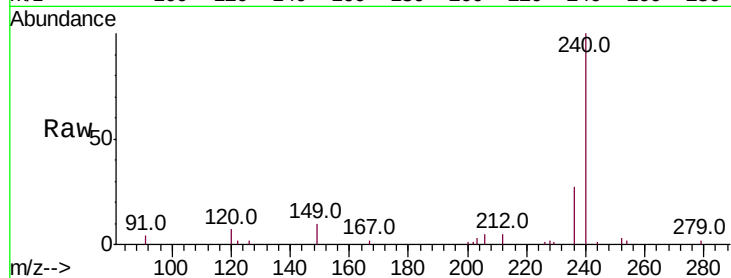
Tot Ion:240 Resp: 9840

Ion Ratio Lower Upper

240 100

120 6.9 7.4 11.0#

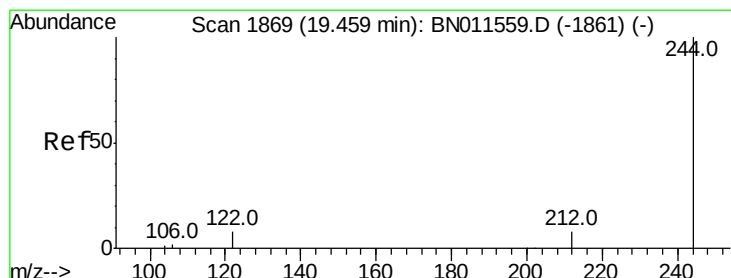
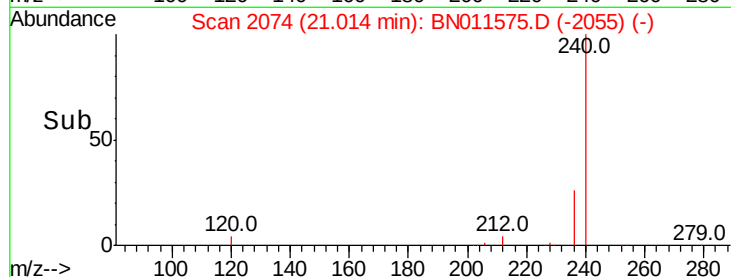
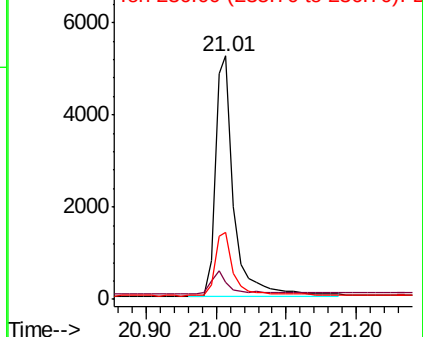
236 27.4 22.3 33.5



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



#31

Terphenyl-d14

Concen: 0.682 ng

RT: 19.45 min Scan# 1867

Delta R.T. -0.01 min

Lab File: BN011575.D

Acq: 22 Aug 2020 07:16

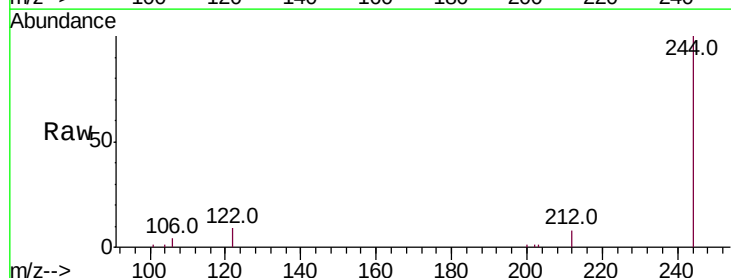
Tgt Ion:244 Resp: 17491

Ion Ratio Lower Upper

244 100

212 8.3 8.2 12.4

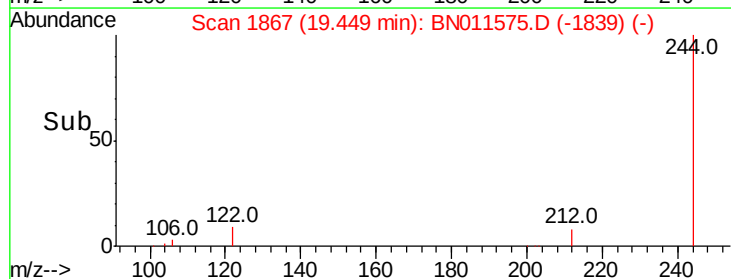
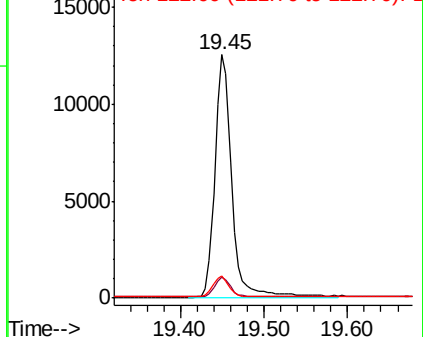
122 9.2 8.0 12.0

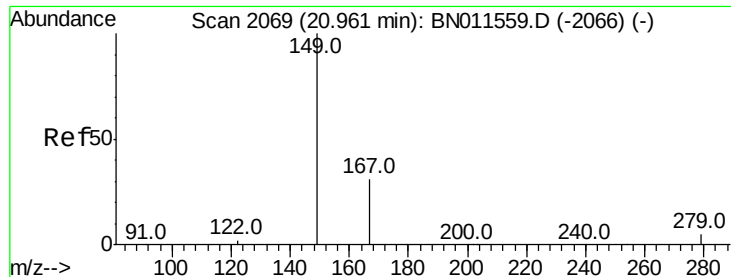


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#34

Bis(2-ethylhexyl)phthalate

Concen: 0.159 ng

RT: 20.95 min Scan# 2068

Delta R.T. -0.01 min

Lab File: BN011575.D

Acq: 22 Aug 2020 07:16

Instrument :

BNA\_N

ClientSampleId :

BP-VPB179-GW-798-800

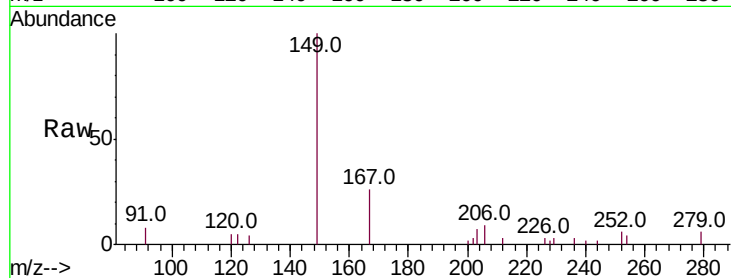
Tot Ion:149 Resp: 2310

Ion Ratio Lower Upper

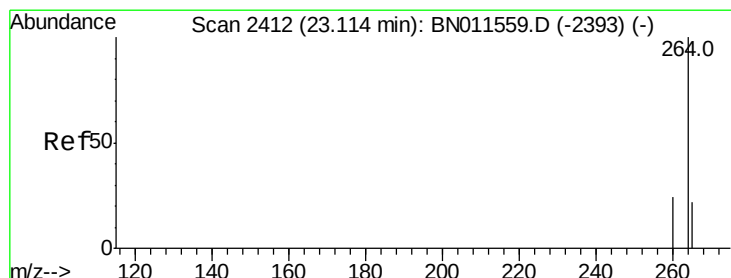
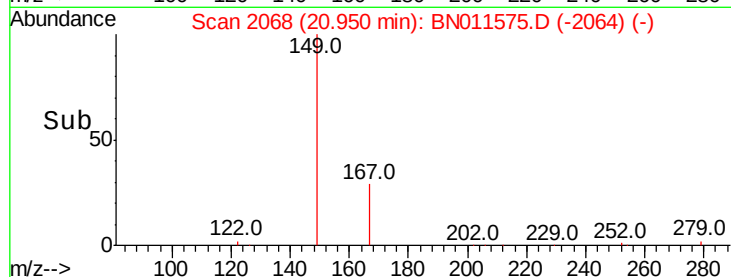
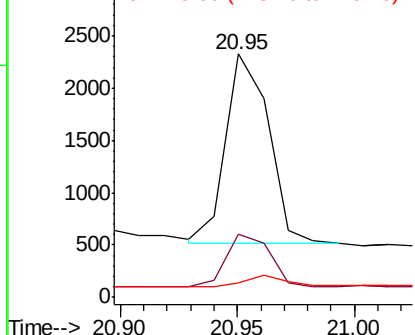
149 100

167 28.1 22.8 34.2

279 5.5 4.2 6.2



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



#36

Perylene-d12

Concen: 0.400 ng

RT: 23.10 min Scan# 2409

Delta R.T. -0.01 min

Lab File: BN011575.D

Acq: 22 Aug 2020 07:16

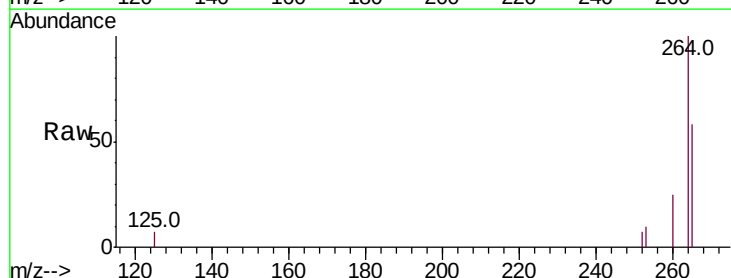
Tgt Ion:264 Resp: 9893

Ion Ratio Lower Upper

264 100

260 24.9 20.3 30.5

265 58.4 96.1 144.1#



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

