

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF072319\  
 Data File : BF115730.D  
 Acq On : 23 Jul 2019 20:23  
 Operator : HP/JU  
 Sample : K3942-01  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SH-CONCRETE

Quant Time: Jul 24 04:58:17 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF071219.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jul 12 14:03:52 2019  
 Response via : Initial Calibration

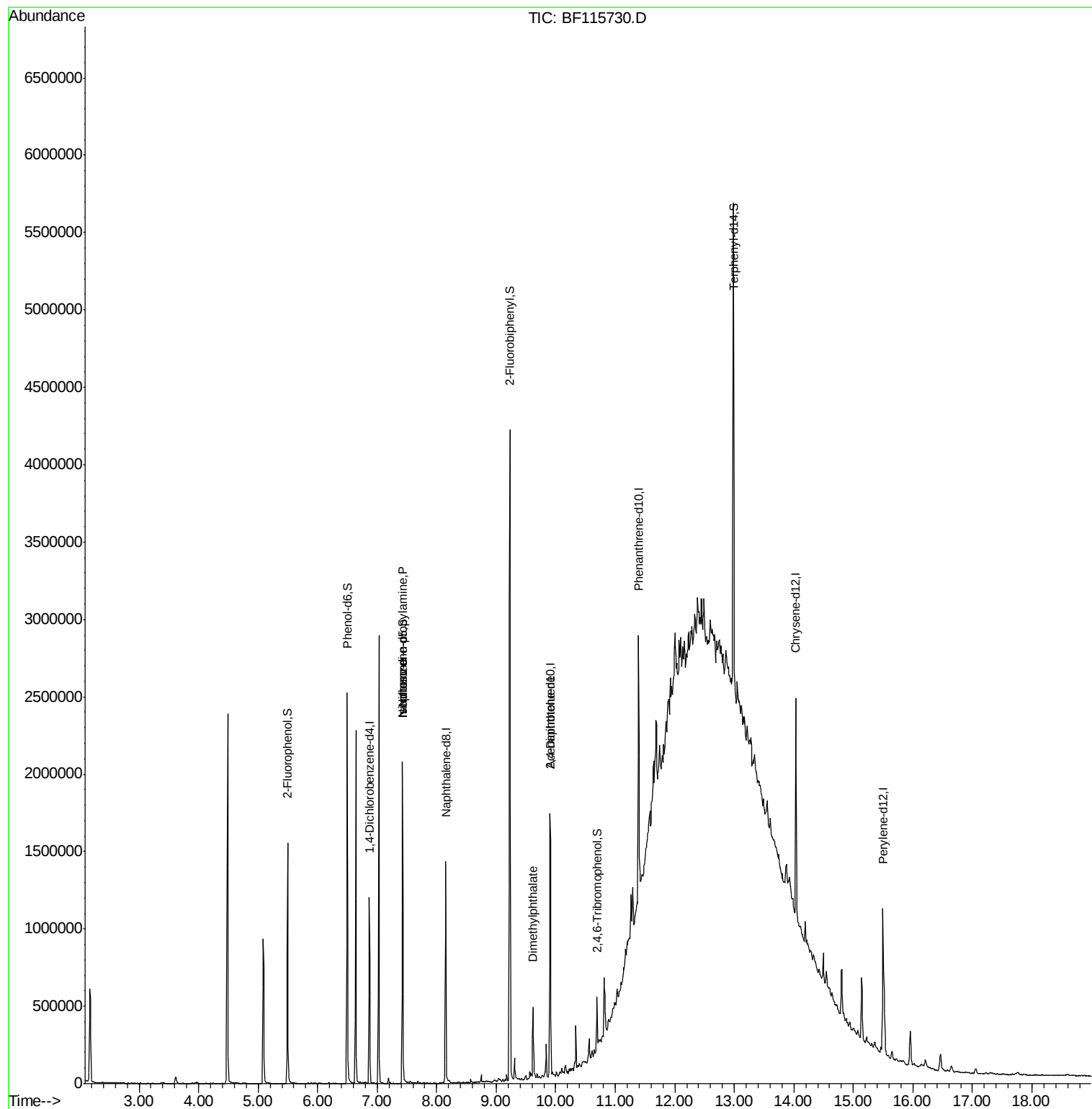
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.87  | 152  | 165528   | 20.00  | ng    | -0.02    |
| 21) Naphthalene-d8             | 8.15  | 136  | 653890   | 20.00  | ng    | -0.02    |
| 39) Acenaphthene-d10           | 9.90  | 164  | 365396   | 20.00  | ng    | -0.02    |
| 64) Phenanthrene-d10           | 11.39 | 188  | 616880   | 20.00  | ng    | -0.02    |
| 76) Chrysene-d12               | 14.03 | 240  | 476652   | 20.00  | ng    | -0.02    |
| 87) Perylene-d12               | 15.50 | 264  | 453983   | 20.00  | ng    | -0.02    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.49  | 112  | 426903   | 42.19  | ng    | -0.01    |
| 7) Phenol-d6                   | 6.50  | 99   | 899837   | 70.08  | ng    | -0.02    |
| 23) Nitrobenzene-d5            | 7.43  | 82   | 696144   | 61.90  | ng    | -0.02    |
| 42) 2,4,6-Tribromophenol       | 10.69 | 330  | 44616    | 10.46  | ng    | -0.02    |
| 45) 2-Fluorobiphenyl           | 9.23  | 172  | 1334011  | 63.90  | ng    | -0.02    |
| 79) Terphenyl-d14              | 12.99 | 244  | 1420808  | 55.00  | ng    | -0.01    |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.43  | 70   | 93063    | 11.113 | ng    | # 80     |
| 25) Isophorone                 | 7.43  | 82   | 683590   | 30.378 | ng    | # 64     |
| 50) Dimethylphthalate          | 9.62  | 163  | 173989   | 6.329  | ng    | 98       |
| 57) 2,4-Dinitrotoluene         | 9.90  | 165  | 49069    | 6.062  | ng    | # 24     |

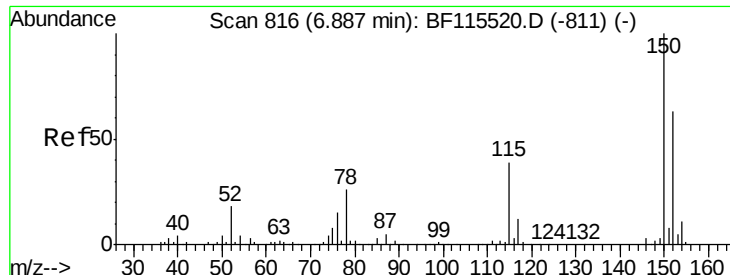
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF072319\  
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ALS Vial : 13 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SH-CONCRETE

Quant Time: Jul 24 04:58:17 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF071219.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Jul 12 14:03:52 2019  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.000 ng

RT: 6.87 min Scan# 813

Delta R.T. -0.02 min

Lab File: BF115730.D

Acq: 23 Jul 2019 20:23

Instrument :

BNA\_F

ClientSampleId :

SH-CONCRETE

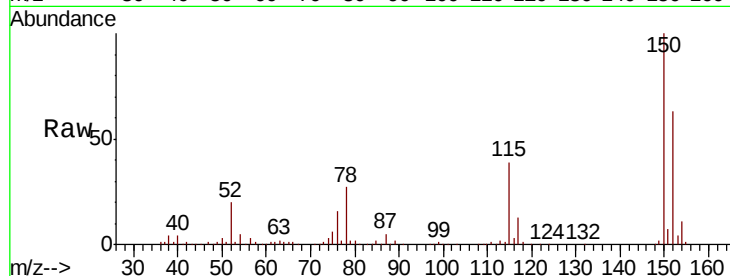
Tgt Ion:152 Resp: 165528

Ion Ratio Lower Upper

152 100

150 158.2 129.7 194.5

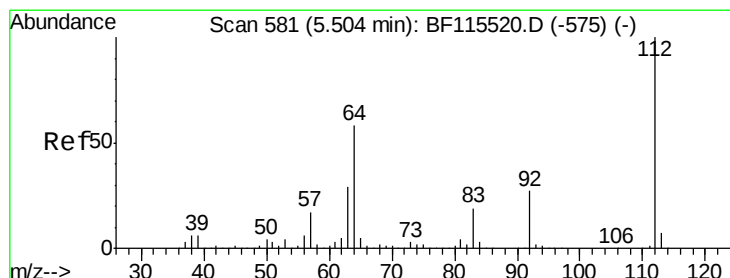
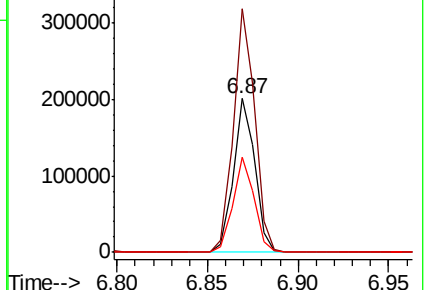
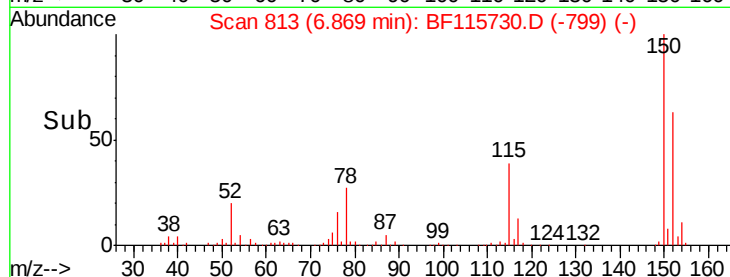
115 62.1 48.2 72.4



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol

Concen: 42.186 ng

RT: 5.49 min Scan# 579

Delta R.T. -0.01 min

Lab File: BF115730.D

Acq: 23 Jul 2019 20:23

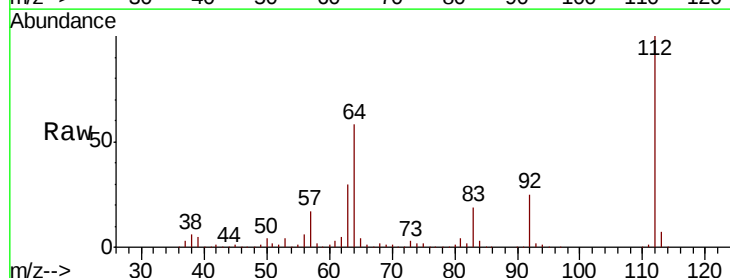
Tgt Ion:112 Resp: 426903

Ion Ratio Lower Upper

112 100

64 57.7 46.8 70.2

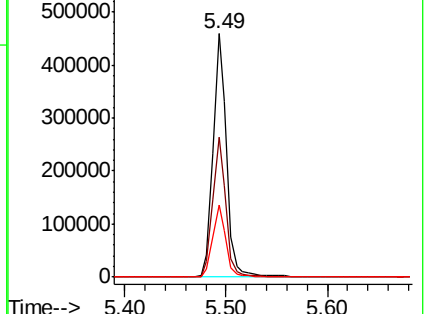
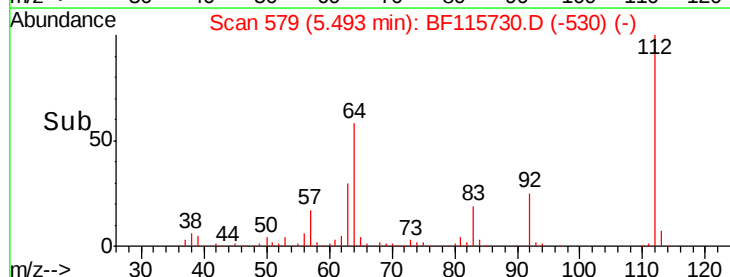
63 29.9 24.1 36.1

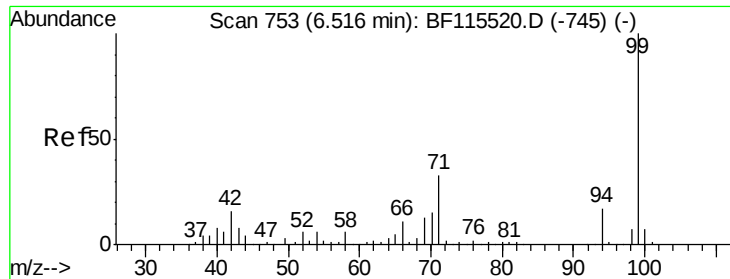


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 70.077 ng

RT: 6.50 min Scan# 750

Delta R.T. -0.02 min

Lab File: BF115730.D

Acq: 23 Jul 2019 20:23

Instrument :

BNA\_F

ClientSampleId :

SH-CONCRETE

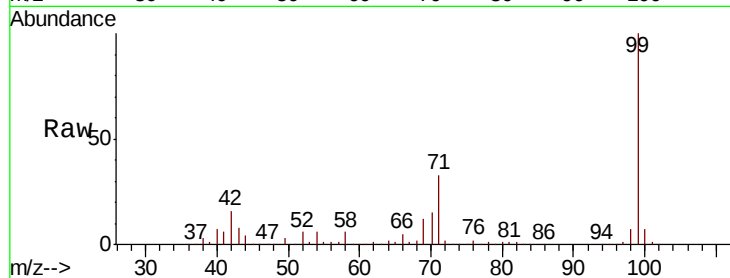
Tgt Ion: 99 Resp: 899837

Ion Ratio Lower Upper

99 100

42 16.1 13.6 20.4

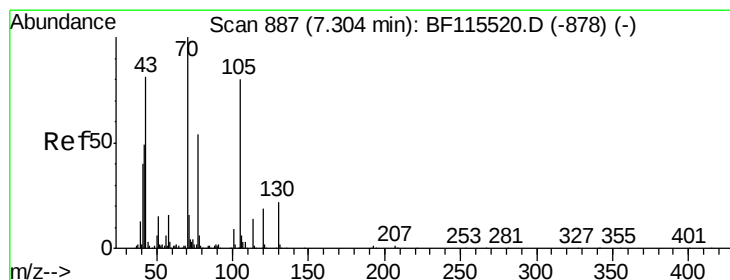
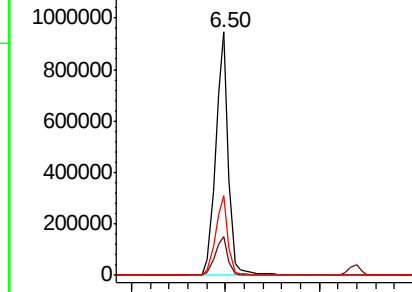
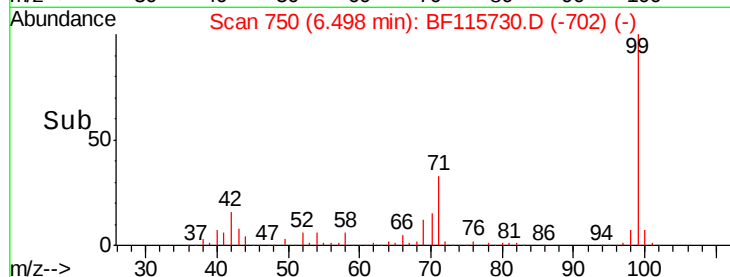
71 32.6 28.5 42.7



Abundance Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1



#19

n-Nitroso-di-n-propylamine

Concen: 11.113 ng

RT: 7.43 min Scan# 908

Delta R.T. 0.12 min

Lab File: BF115730.D

Acq: 23 Jul 2019 20:23

Tgt Ion: 70 Resp: 93063

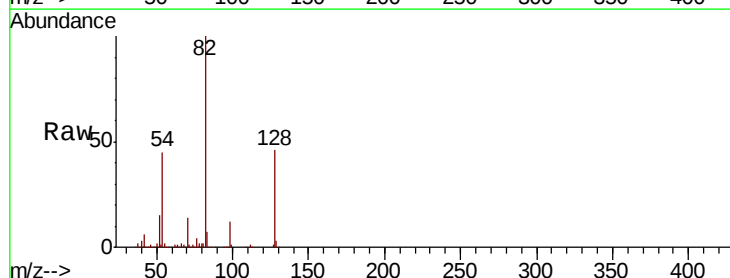
Ion Ratio Lower Upper

70 100

42 43.8 39.6 59.4

101 0.0 8.1 12.1#

130 2.3 18.2 27.2#

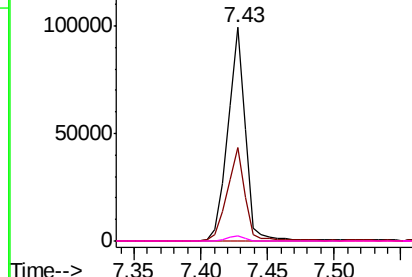
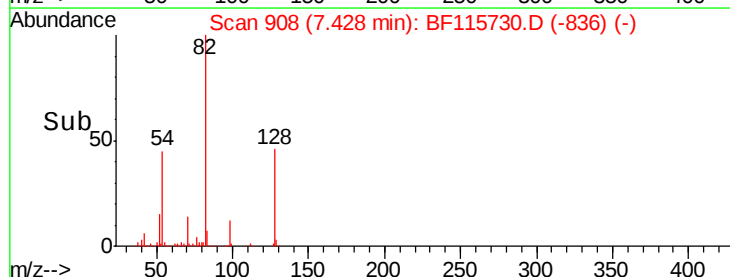


Abundance Ion 70.00 (69.70 to 70.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 101.00 (100.70 to 101.70): BF1

Ion 130.00 (129.70 to 130.70): BF1

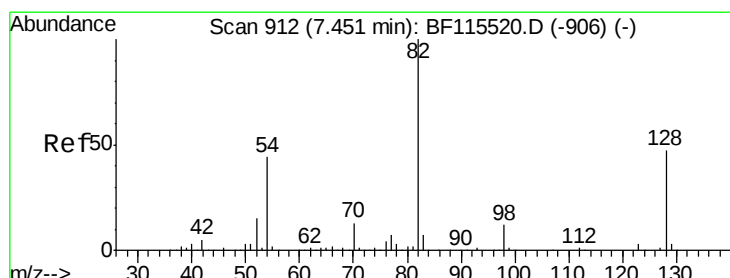
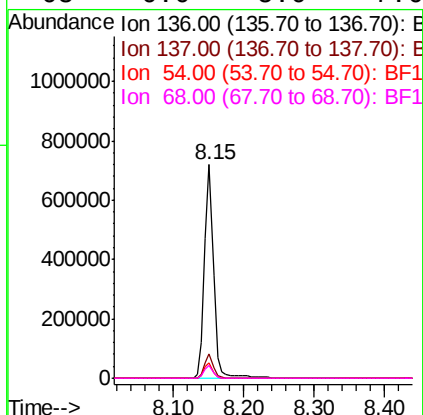
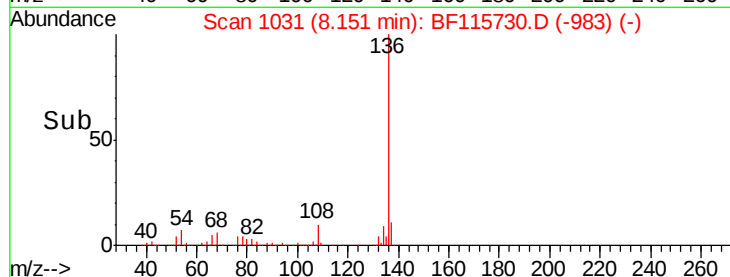
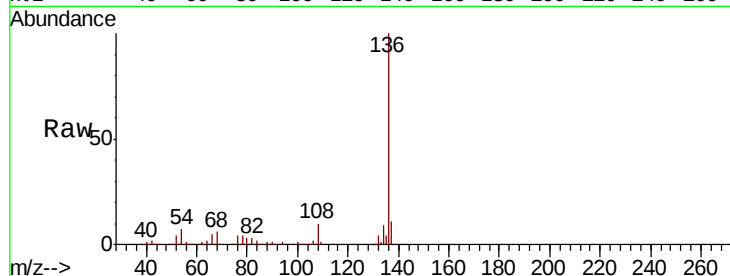




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.15 min Scan# 1031  
Delta R.T. -0.02 min  
Lab File: BF115730.D  
Acq: 23 Jul 2019 20:23

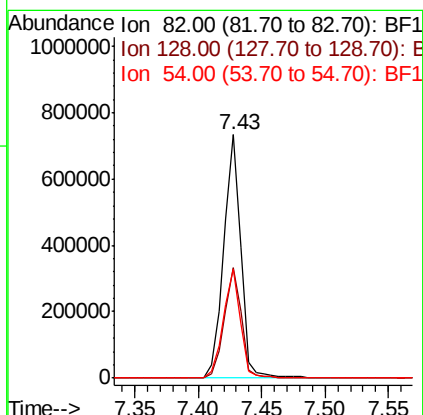
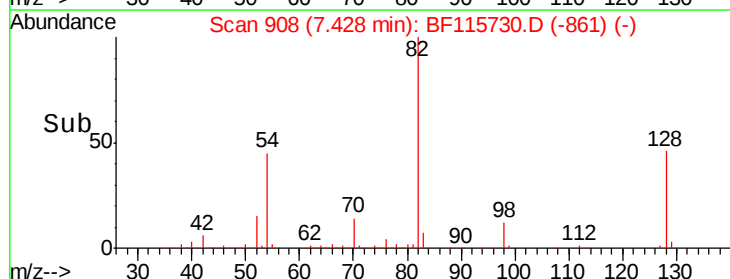
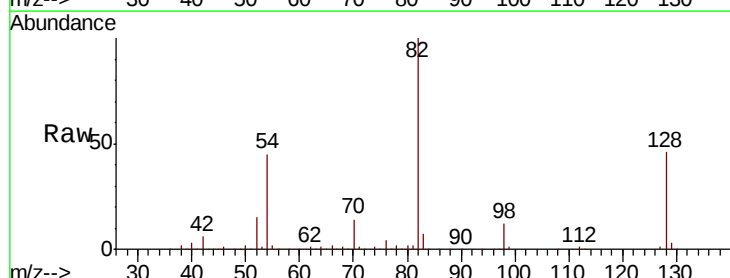
Instrument :  
BNA\_F  
ClientSampleId :  
SH-CONCRETE

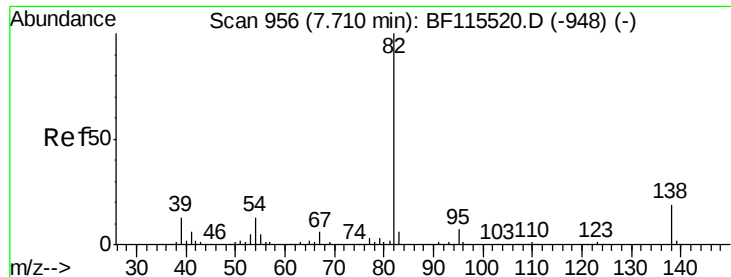
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 653890 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.2  | 9.0   | 13.4   |
| 54       | 7.0   | 5.6   | 8.4    |
| 68       | 6.0   | 5.0   | 7.6    |



#23  
Nitrobenzene-d5  
Concen: 61.904 ng  
RT: 7.43 min Scan# 908  
Delta R.T. -0.02 min  
Lab File: BF115730.D  
Acq: 23 Jul 2019 20:23

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 696144 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 45.6  | 38.6  | 57.8   |
| 54       | 44.6  | 35.6  | 53.4   |





#25

Isophorone

Concen: 30.378 ng

RT: 7.43 min Scan# 908

Delta R.T. -0.28 min

Lab File: BF115730.D

Acq: 23 Jul 2019 20:23

Instrument :

BNA\_F

ClientSampleId :

SH-CONCRETE

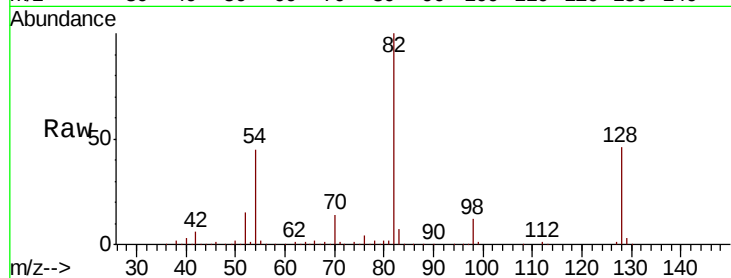
Tgt Ion: 82 Resp: 683590

Ion Ratio Lower Upper

82 100

95 0.0 5.5 8.3#

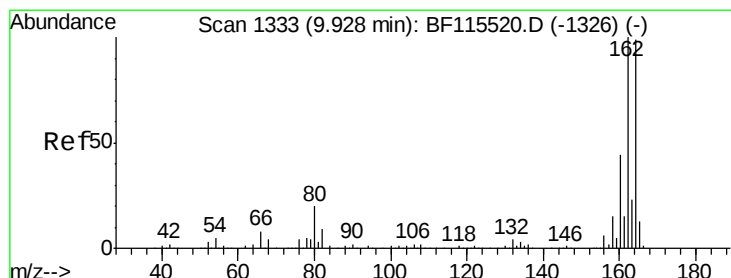
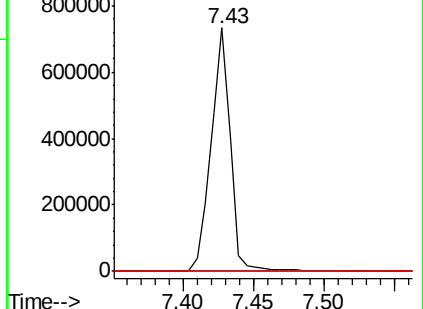
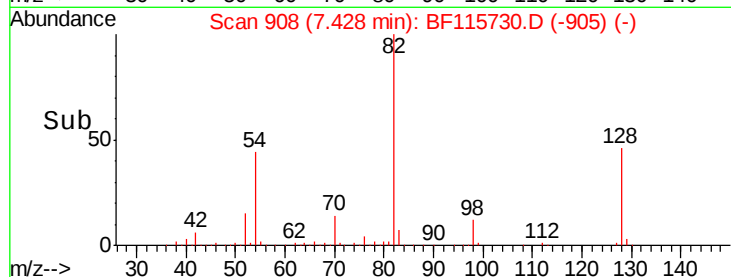
138 0.0 14.9 22.3#



Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 95.00 (94.70 to 95.70): BF1

Ion 138.00 (137.70 to 138.70): BF1



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.90 min Scan# 1329

Delta R.T. -0.02 min

Lab File: BF115730.D

Acq: 23 Jul 2019 20:23

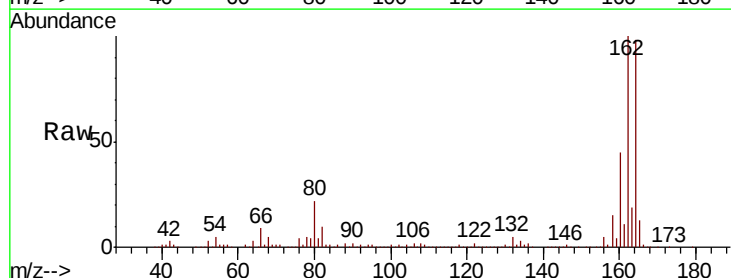
Tgt Ion: 164 Resp: 365396

Ion Ratio Lower Upper

164 100

162 101.9 82.9 124.3

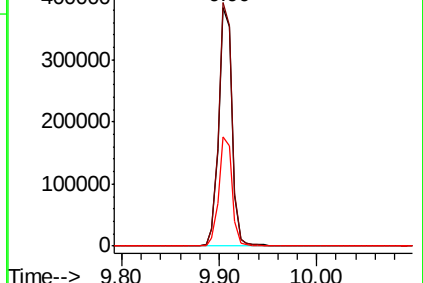
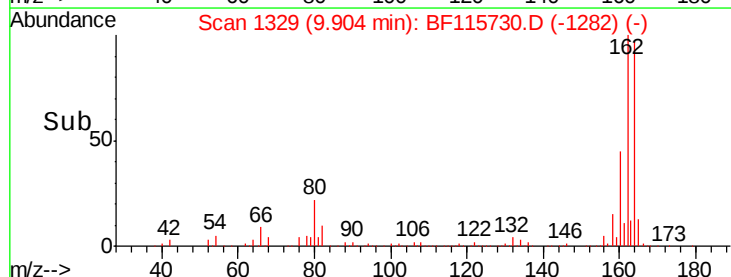
160 45.5 36.8 55.2

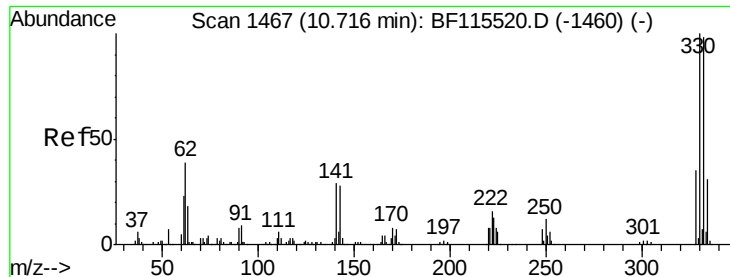


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

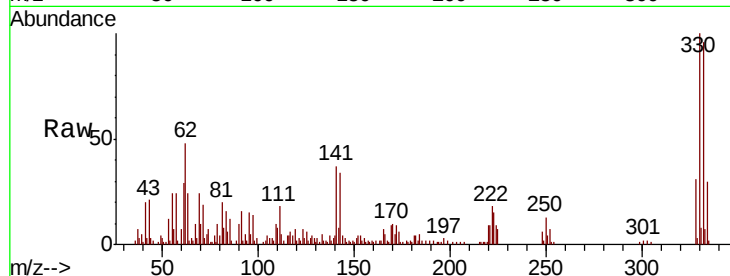




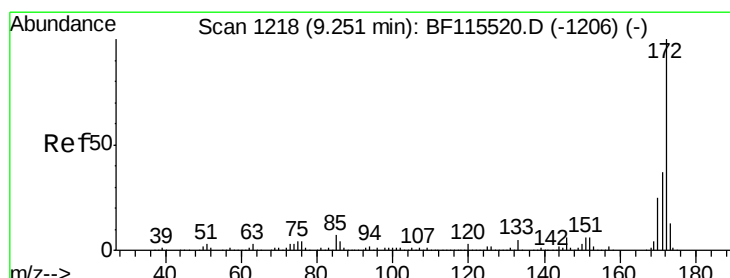
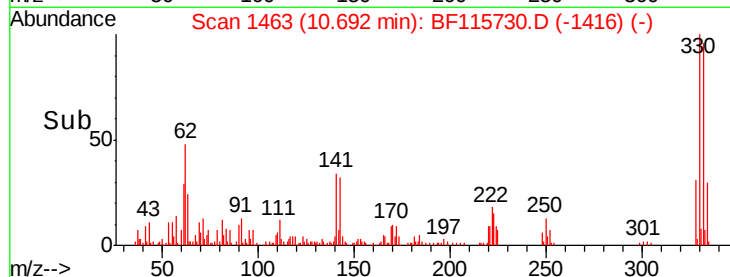
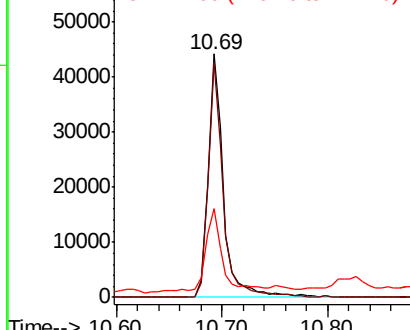
#42  
 2,4,6-Tribromophenol  
 Concen: 10.461 ng  
 RT: 10.69 min Scan# 1463  
 Delta R.T. -0.02 min  
 Lab File: BF115730.D  
 Acq: 23 Jul 2019 20:23

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SH-CONCRETE

Tgt Ion:330 Resp: 44616  
 Ion Ratio Lower Upper  
 330 100  
 332 94.0 77.4 116.2  
 141 39.4 22.4 33.6#

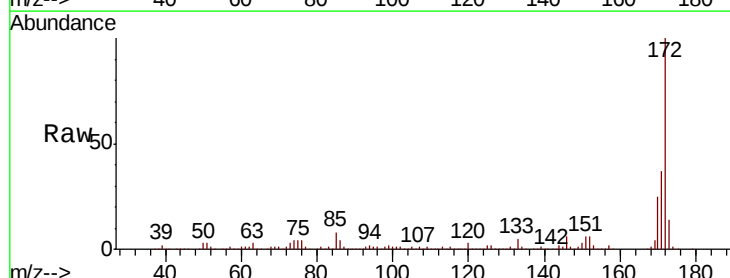


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

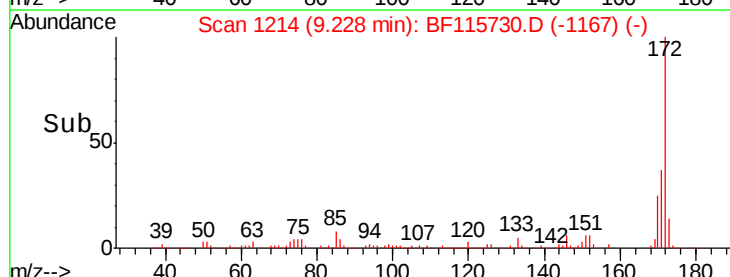
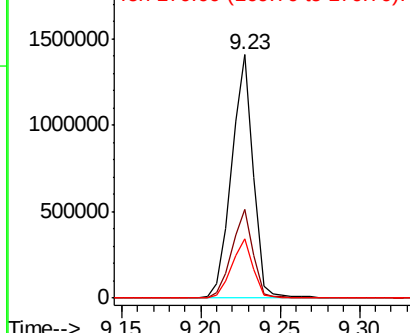


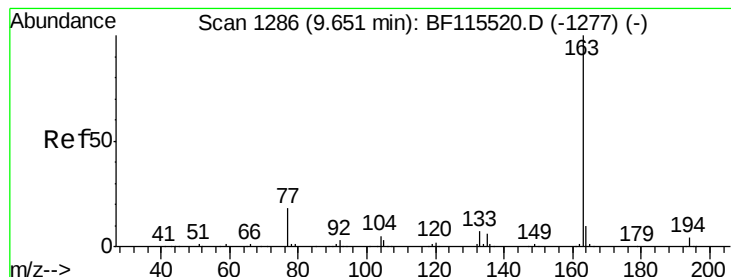
#45  
 2-Fluorobiphenyl  
 Concen: 63.900 ng  
 RT: 9.23 min Scan# 1214  
 Delta R.T. -0.02 min  
 Lab File: BF115730.D  
 Acq: 23 Jul 2019 20:23

Tgt Ion:172 Resp: 1334011  
 Ion Ratio Lower Upper  
 172 100  
 171 36.7 30.6 46.0  
 170 24.6 20.5 30.7



Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E





#50

Dimethylphthalate

Concen: 6.329 ng

RT: 9.62 min Scan# 1280

Delta R.T. -0.04 min

Lab File: BF115730.D

Acq: 23 Jul 2019 20:23

Instrument :

BNA\_F

ClientSampleId :

SH-CONCRETE

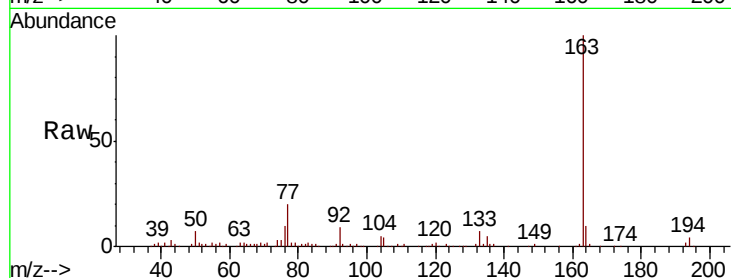
Tgt Ion:163 Resp: 173989

Ion Ratio Lower Upper

163 100

194 4.1 3.3 4.9

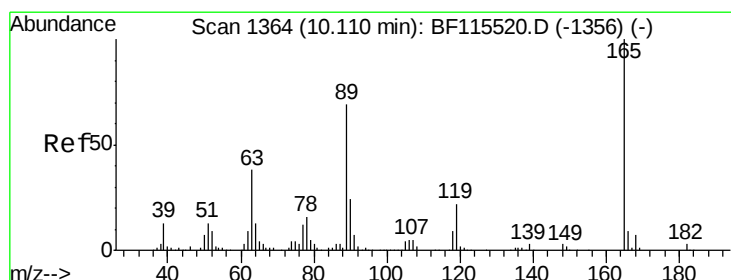
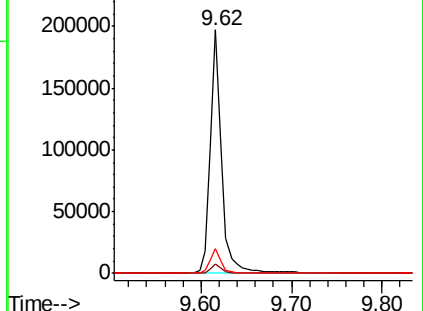
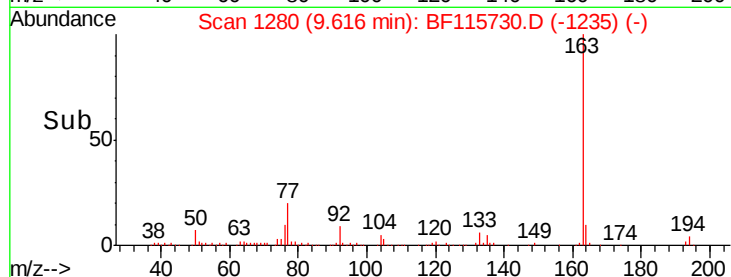
164 10.0 8.7 13.1



Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#57

2,4-Dinitrotoluene

Concen: 6.062 ng

RT: 9.90 min Scan# 1329

Delta R.T. -0.21 min

Lab File: BF115730.D

Acq: 23 Jul 2019 20:23

Tgt Ion:165 Resp: 49069

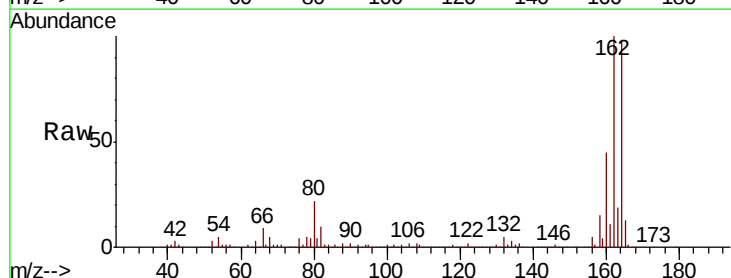
Ion Ratio Lower Upper

165 100

63 1.3 34.9 52.3#

89 1.5 57.5 86.3#

182 0.0 2.2 3.4#

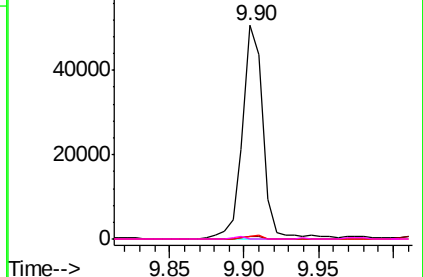
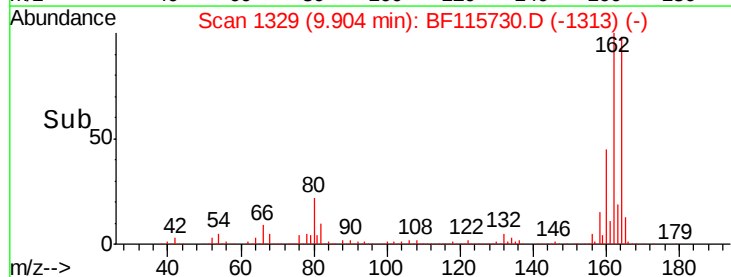


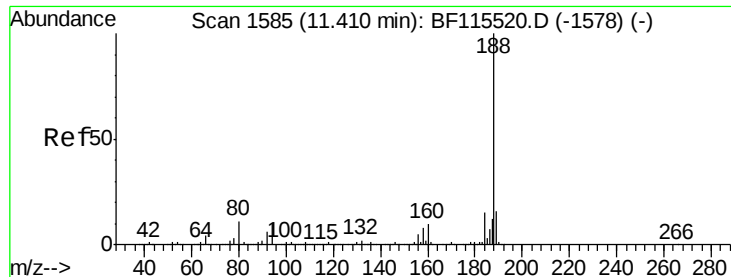
Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1

Ion 182.00 (181.70 to 182.70): E

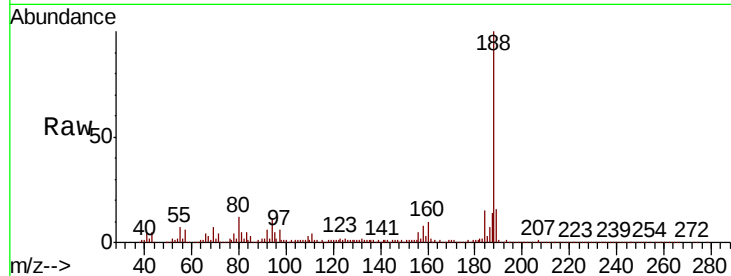




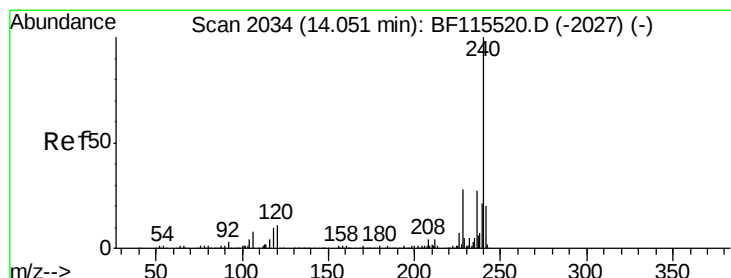
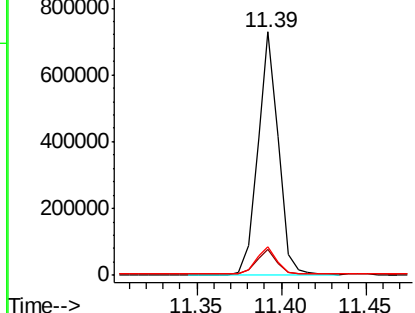
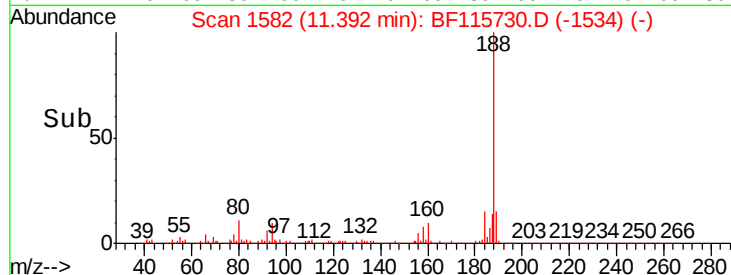
#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.39 min Scan# 1582  
Delta R.T. -0.02 min  
Lab File: BF115730.D  
Acq: 23 Jul 2019 20:23

Instrument :  
BNA\_F  
ClientSampleId :  
SH-CONCRETE

Tgt Ion:188 Resp: 616880  
Ion Ratio Lower Upper  
188 100  
94 10.5 7.8 11.6  
80 11.7 8.6 13.0

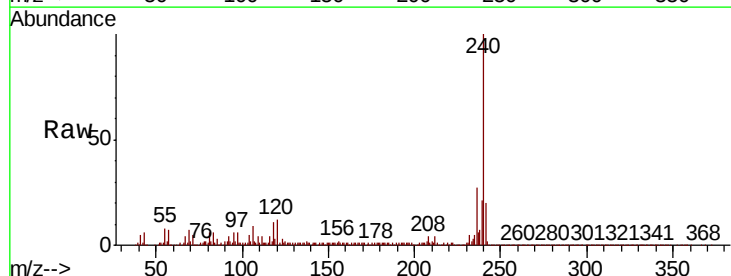


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF1  
Ion 80.00 (79.70 to 80.70): BF1

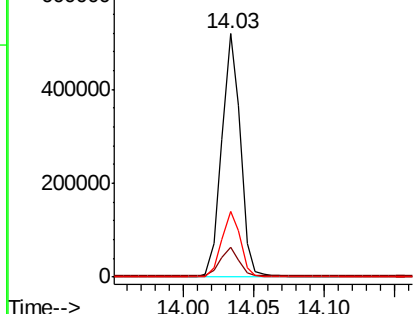
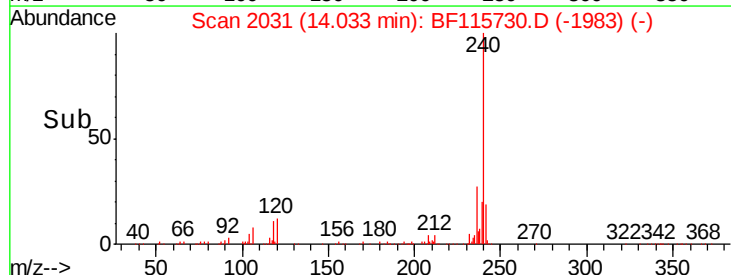


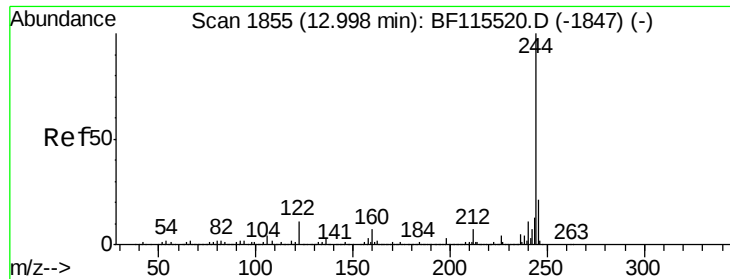
#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.03 min Scan# 2031  
Delta R.T. -0.02 min  
Lab File: BF115730.D  
Acq: 23 Jul 2019 20:23

Tgt Ion:240 Resp: 476652  
Ion Ratio Lower Upper  
240 100  
120 12.5 8.6 13.0  
236 27.2 21.3 31.9



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





#79

Terphenyl-d14

Concen: 55.001 ng

RT: 12.99 min Scan# 1853

Delta R.T. -0.01 min

Lab File: BF115730.D

Acq: 23 Jul 2019 20:23

Instrument :

BNA\_F

ClientSampleId :

SH-CONCRETE

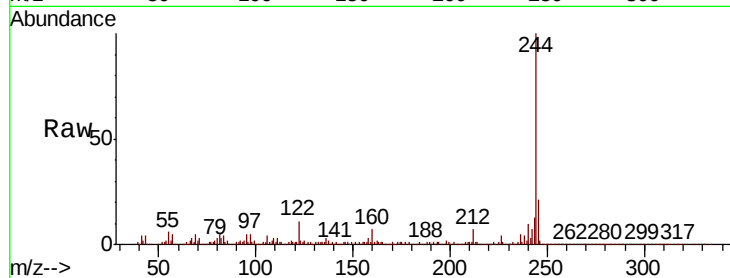
Tgt Ion:244 Resp: 1420808

Ion Ratio Lower Upper

244 100

212 6.9 6.0 9.0

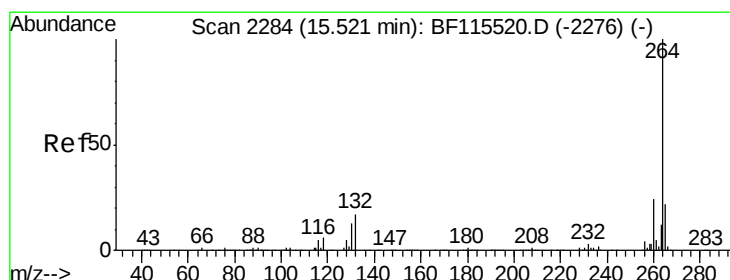
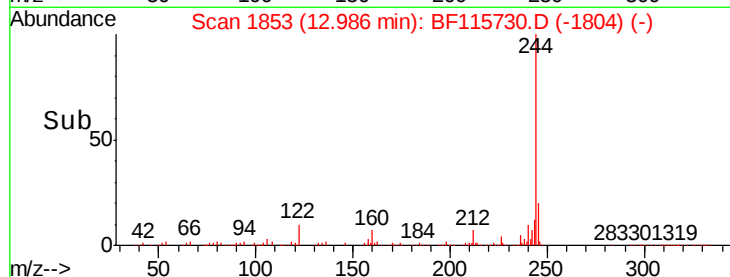
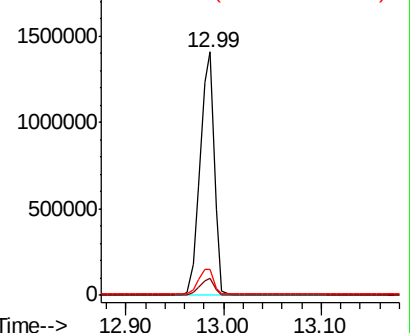
122 10.9 8.6 12.8



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



#87

Perylene-d12

Concen: 20.000 ng

RT: 15.50 min Scan# 2280

Delta R.T. -0.02 min

Lab File: BF115730.D

Acq: 23 Jul 2019 20:23

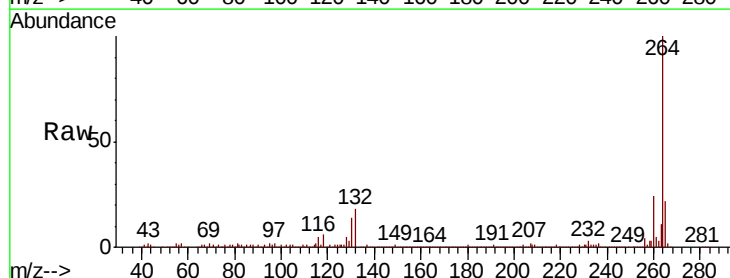
Tgt Ion:264 Resp: 453983

Ion Ratio Lower Upper

264 100

260 24.5 19.8 29.8

265 21.8 17.7 26.5



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

