

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF080619\  
 Data File : BF116027.D  
 Acq On : 6 Aug 2019 21:35  
 Operator : HP/JU  
 Sample : K4130-37  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Aug 07 01:19:23 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF073019.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jul 31 15:31:51 2019  
 Response via : Initial Calibration

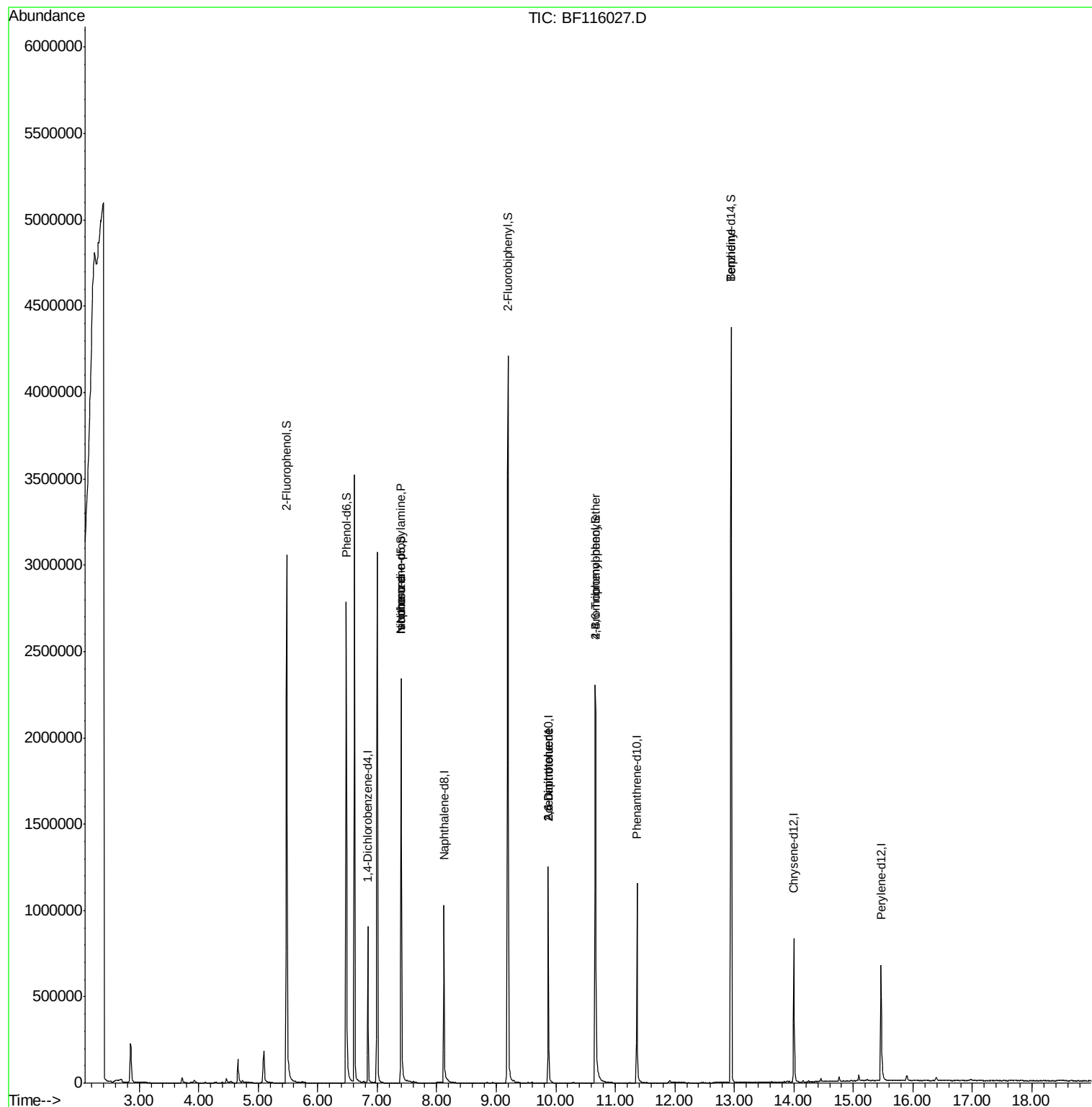
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.85  | 152  | 134090   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.12  | 136  | 511505   | 20.00  | ng    | -0.01    |
| 39) Acenaphthene-d10           | 9.87  | 164  | 267128   | 20.00  | ng    | -0.02    |
| 64) Phenanthrene-d10           | 11.36 | 188  | 469817   | 20.00  | ng    | -0.02    |
| 76) Chrysene-d12               | 14.00 | 240  | 329699   | 20.00  | ng    | -0.03    |
| 87) Perylene-d12               | 15.46 | 264  | 369283   | 20.00  | ng    | -0.03    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.48  | 112  | 936750   | 116.95 | ng    | 0.01     |
| 7) Phenol-d6                   | 6.48  | 99   | 1074572  | 106.33 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.40  | 82   | 858153   | 96.84  | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol       | 10.67 | 330  | 355308   | 137.19 | ng    | -0.02    |
| 45) 2-Fluorobiphenyl           | 9.20  | 172  | 1499993  | 105.18 | ng    | -0.02    |
| 79) Terphenyl-d14              | 12.94 | 244  | 1612184  | 103.04 | ng    | -0.02    |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.40  | 70   | 116770   | 18.646 | ng    | # 78     |
| 25) Isophorone                 | 7.40  | 82   | 858143   | 50.645 | ng    | # 66     |
| 51) 2,6-Dinitrotoluene         | 9.87  | 165  | 33958    | 8.591  | ng    | # 28     |
| 57) 2,4-Dinitrotoluene         | 9.87  | 165  | 33958    | 6.453  | ng    | # 24     |
| 67) 4-Bromophenyl-phenylether  | 10.66 | 248  | 21480    | 4.271  | ng    | # 1      |
| 77) Benzidine                  | 12.94 | 184  | 22517    | 2.022  | ng    | # 94     |

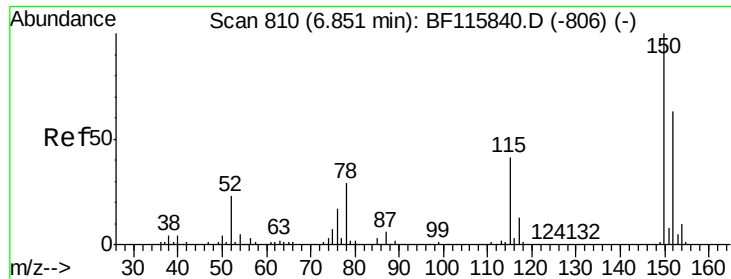
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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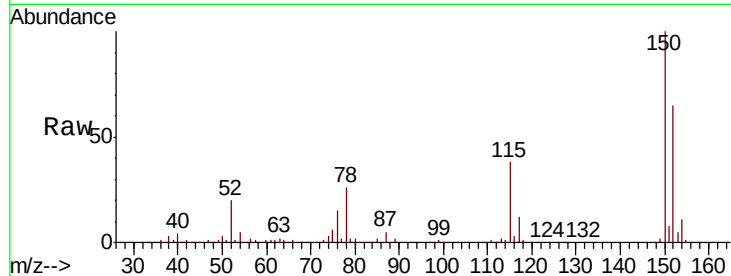


#1

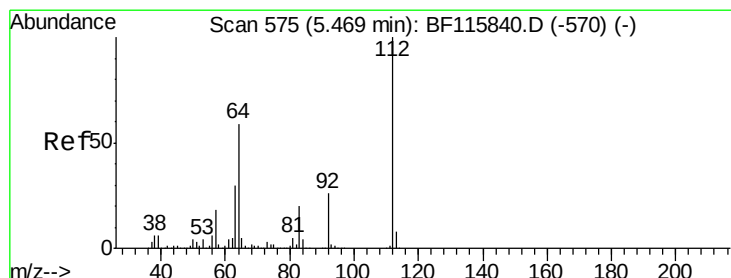
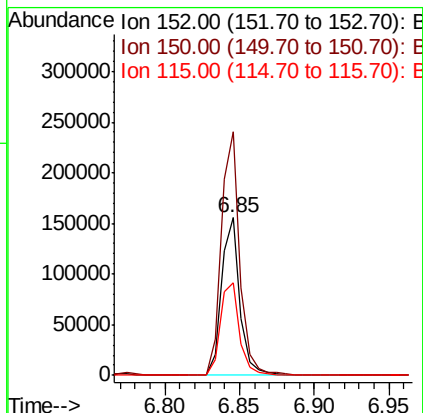
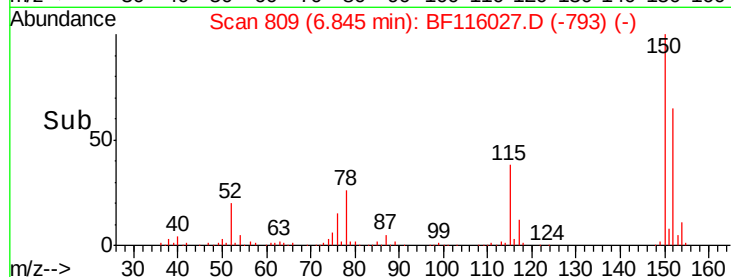
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.85 min Scan# 809  
Delta R.T. -0.01 min  
Lab File: BF116027.D  
Acq: 6 Aug 2019 21:35

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 134090  
Ion Ratio Lower Upper  
152 100  
150 154.7 127.4 191.0  
115 58.7 51.8 77.8



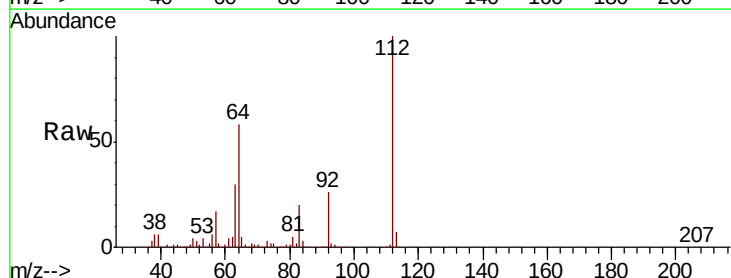
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



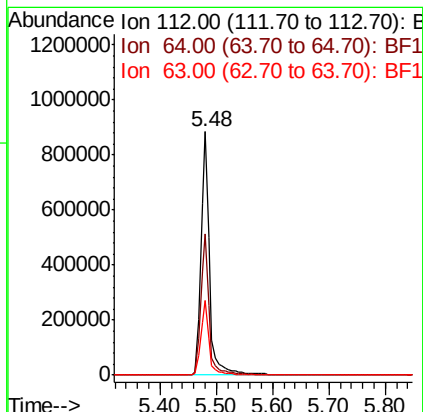
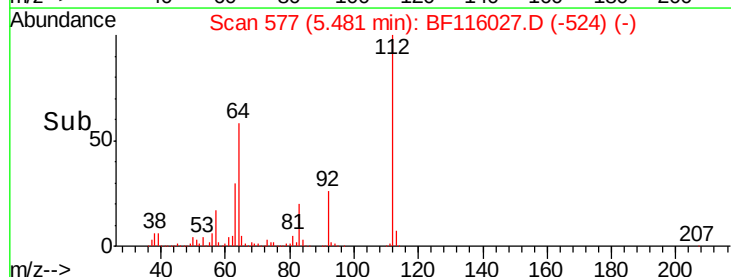
#5

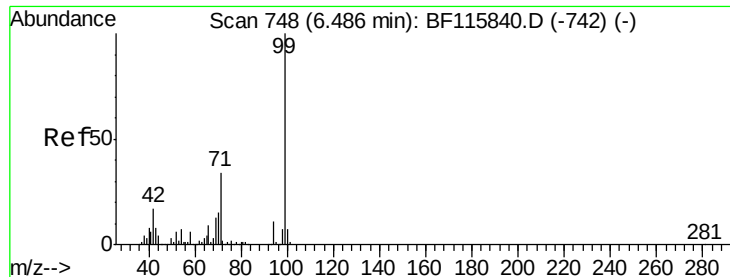
2-Fluorophenol  
Concen: 116.950 ng  
RT: 5.48 min Scan# 577  
Delta R.T. 0.01 min  
Lab File: BF116027.D  
Acq: 6 Aug 2019 21:35

Tgt Ion:112 Resp: 936750  
Ion Ratio Lower Upper  
112 100  
64 57.9 46.8 70.2  
63 30.4 24.2 36.2



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: 106.332 ng

RT: 6.48 min Scan# 747

Delta R.T. -0.01 min

Lab File: BF116027.D

Acq: 6 Aug 2019 21:35

Instrument :

BNA\_F

ClientSampled :

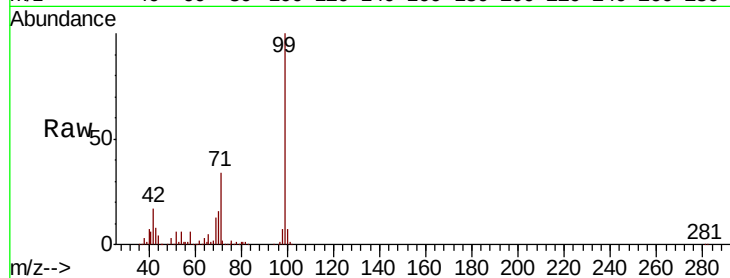
Tot Ion: 99 Resp: 1074572

Ion Ratio Lower Upper

99 100

42 16.8 13.8 20.6

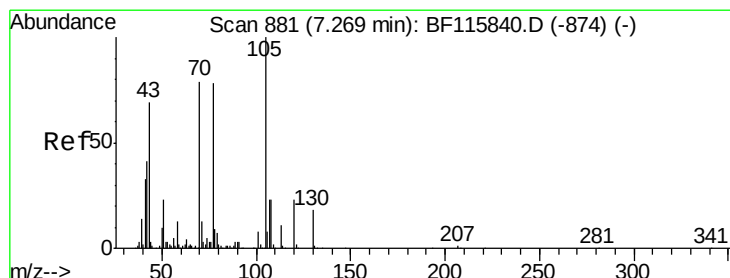
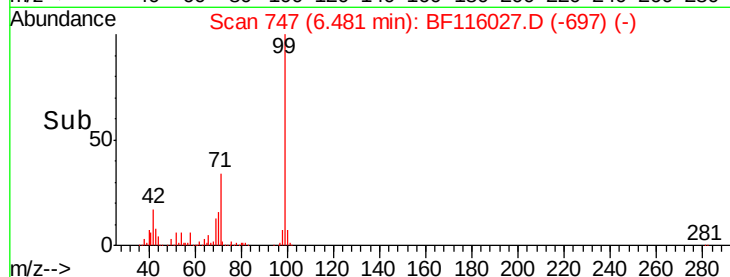
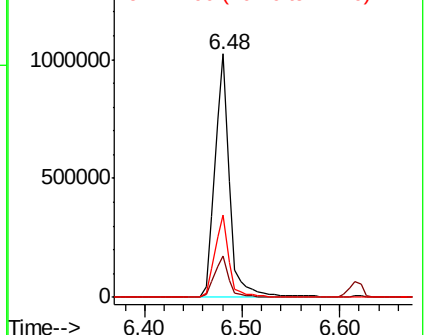
71 34.0 27.1 40.7



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: 18.646 ng

RT: 7.40 min Scan# 904

Delta R.T. 0.14 min

Lab File: BF116027.D

Acq: 6 Aug 2019 21:35

Tgt Ion: 70 Resp: 116770

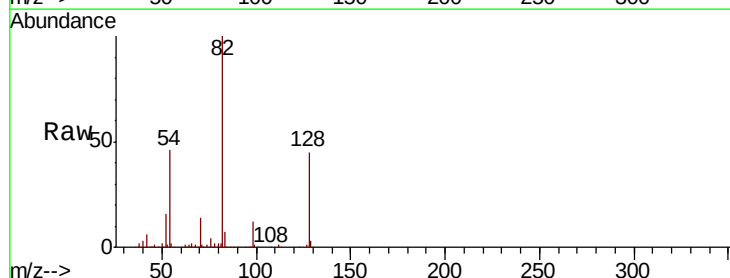
Ion Ratio Lower Upper

70 100

42 43.7 41.8 62.8

101 0.0 7.7 11.5#

130 2.1 17.8 26.6#

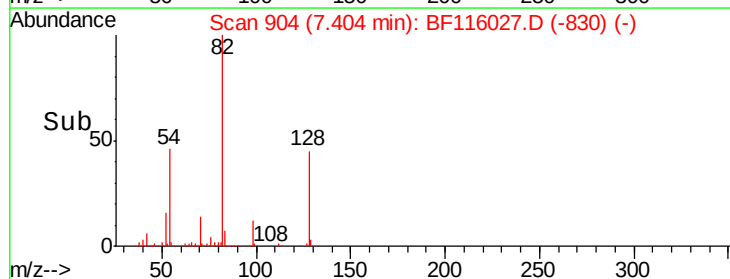
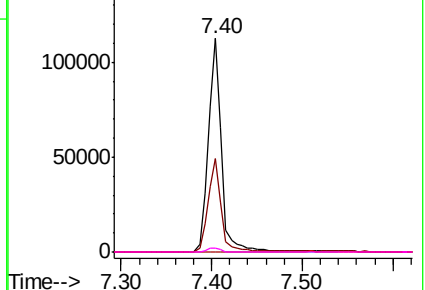


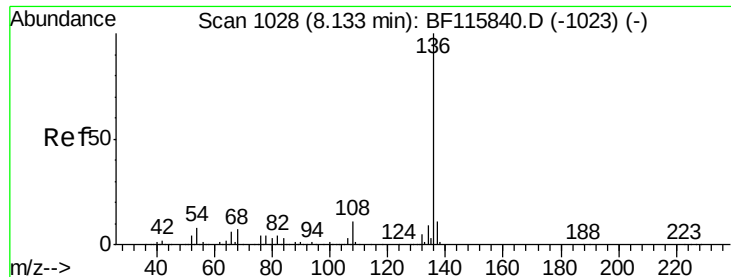
Abundance Ion 70.00 (69.70 to 70.70): BF1

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

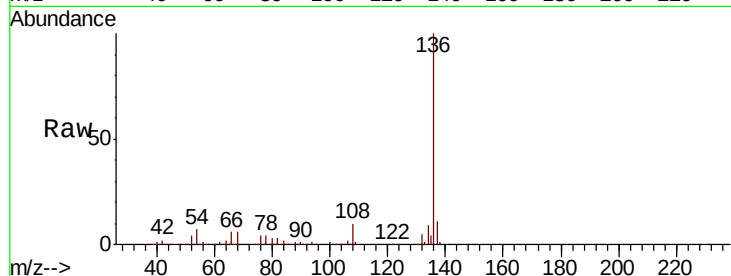




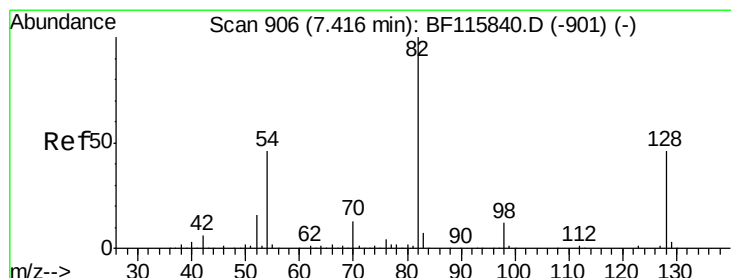
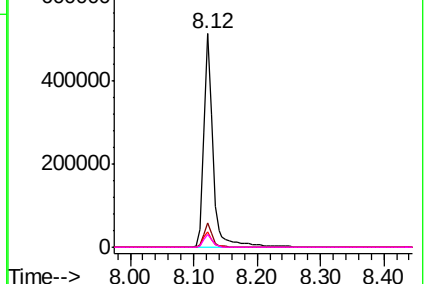
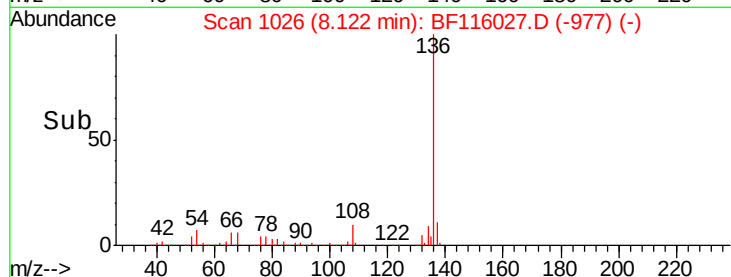
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.12 min Scan# 1026  
Delta R.T. -0.01 min  
Lab File: BF116027.D  
Acq: 6 Aug 2019 21:35

Instrument :  
BNA\_F  
ClientSampleId :

|             |       |          |
|-------------|-------|----------|
| Tot Ion:136 | Resp: | 511505   |
| Ion Ratio   | Lower | Upper    |
| 136         | 100   |          |
| 137         | 11.3  | 9.1 13.7 |
| 54          | 7.1   | 6.1 9.1  |
| 68          | 5.9   | 5.4 8.2  |

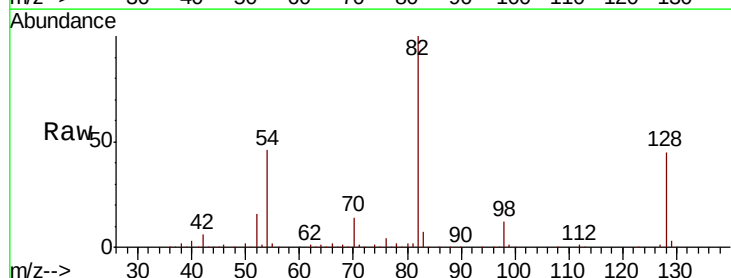


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF1  
Ion 68.00 (67.70 to 68.70): BF1

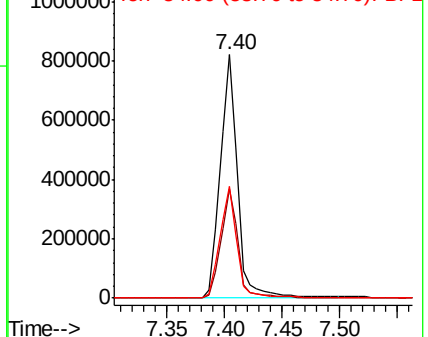
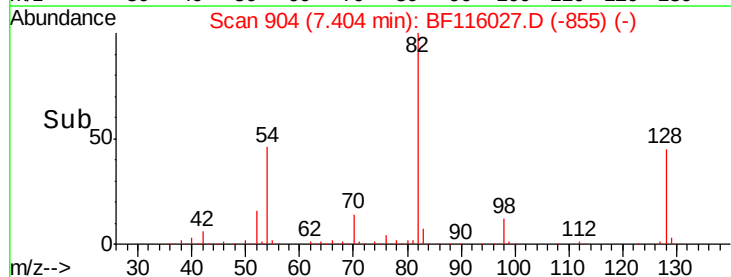


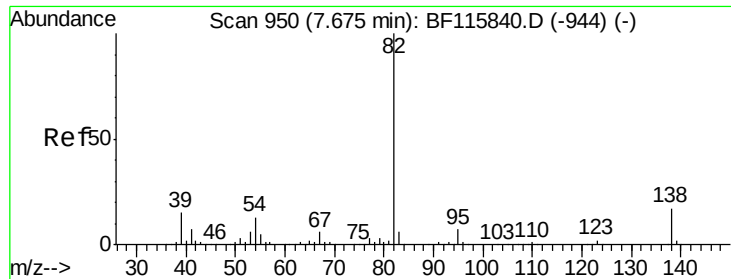
#23  
Nitrobenzene-d5  
Concen: 96.842 ng  
RT: 7.40 min Scan# 904  
Delta R.T. -0.01 min  
Lab File: BF116027.D  
Acq: 6 Aug 2019 21:35

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion: 82 | Resp: | 858153    |
| Ion Ratio   | Lower | Upper     |
| 82          | 100   |           |
| 128         | 44.8  | 36.6 55.0 |
| 54          | 45.8  | 36.6 55.0 |



Abundance Ion 82.00 (81.70 to 82.70): BF1  
Ion 128.00 (127.70 to 128.70): E  
Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 50.645 ng

RT: 7.40 min Scan# 904

Delta R.T. -0.27 min

Lab File: BF116027.D

Acq: 6 Aug 2019 21:35

Instrument :

BNA\_F

ClientSampled :

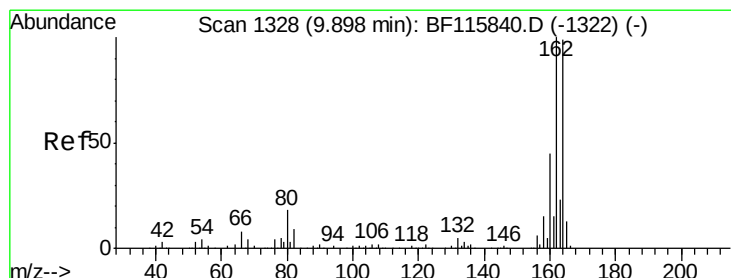
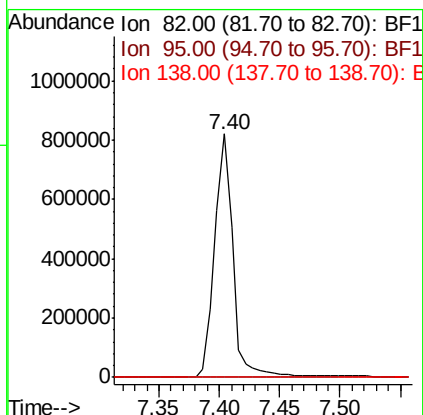
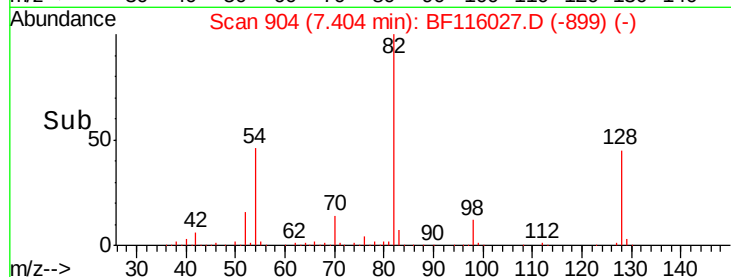
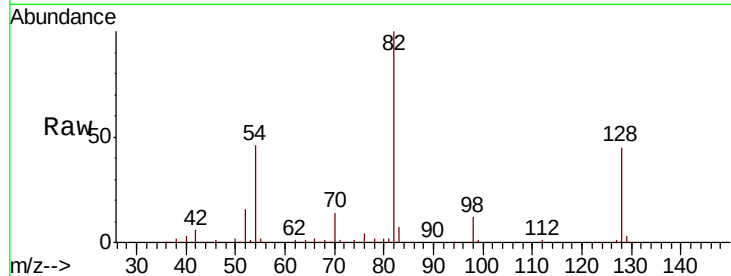
Tot Ion: 82 Resp: 858143

Ion Ratio Lower Upper

82 100

95 0.0 5.5 8.3#

138 0.0 13.9 20.9#



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.87 min Scan# 1324

Delta R.T. -0.02 min

Lab File: BF116027.D

Acq: 6 Aug 2019 21:35

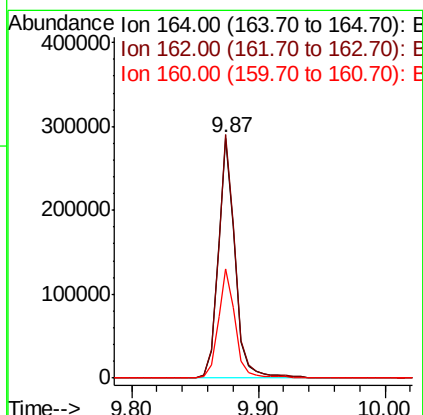
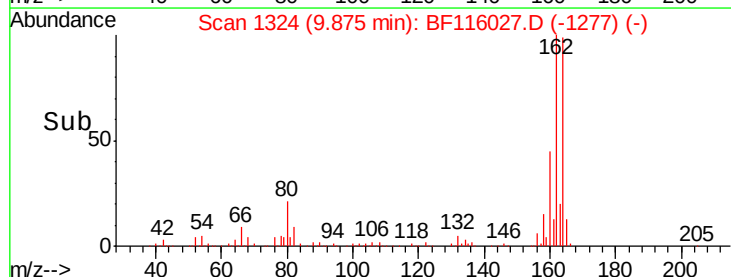
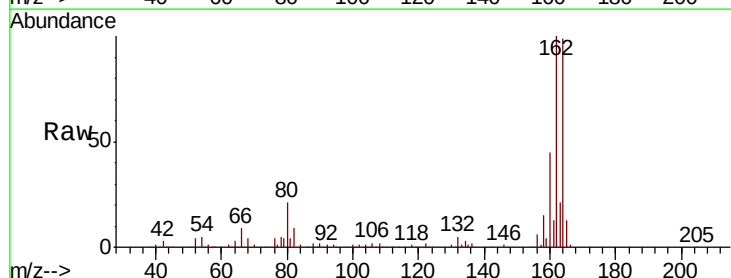
Tgt Ion:164 Resp: 267128

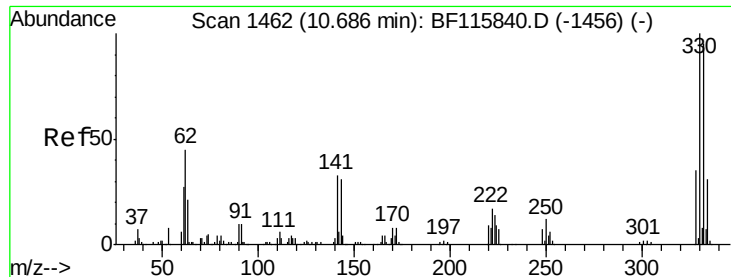
Ion Ratio Lower Upper

164 100

162 101.5 80.8 121.2

160 45.4 36.2 54.4





#42

2,4,6-Tribromophenol

Concen: 137.191 ng

RT: 10.67 min Scan# 1459

Delta R.T. -0.02 min

Lab File: BF116027.D

Acq: 6 Aug 2019 21:35

Instrument :

BNA\_F

ClientSampleId :

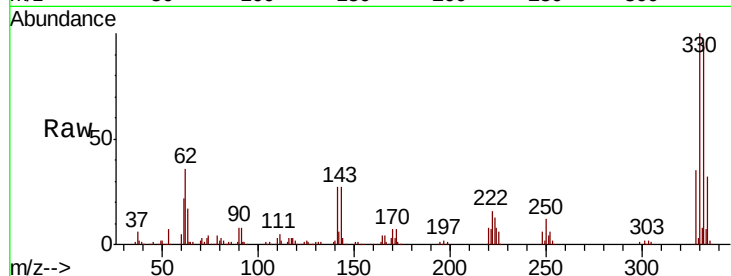
Tot Ion:330 Resp: 355308

Ion Ratio Lower Upper

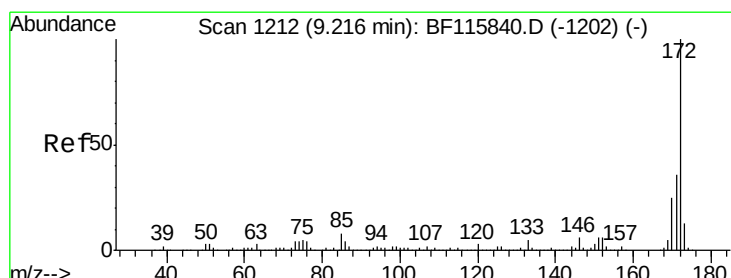
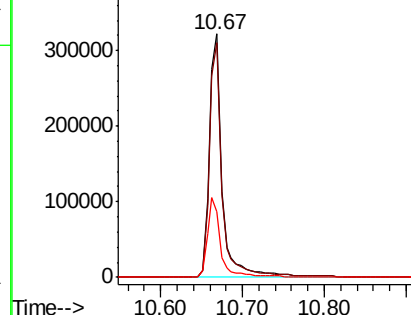
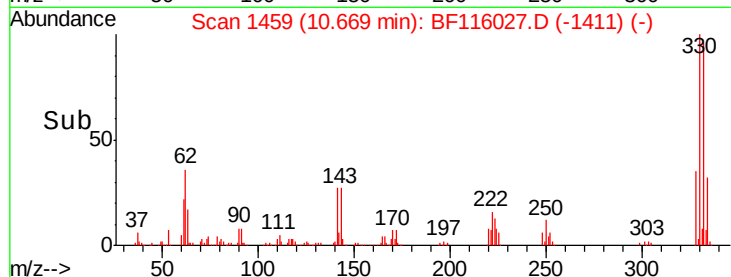
330 100

332 96.1 77.7 116.5

141 34.6 28.1 42.1



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: 105.178 ng

RT: 9.20 min Scan# 1209

Delta R.T. -0.02 min

Lab File: BF116027.D

Acq: 6 Aug 2019 21:35

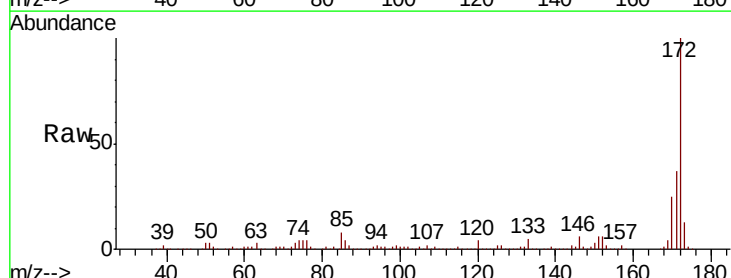
Tgt Ion:172 Resp: 1499993

Ion Ratio Lower Upper

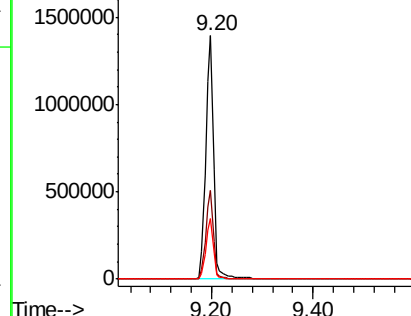
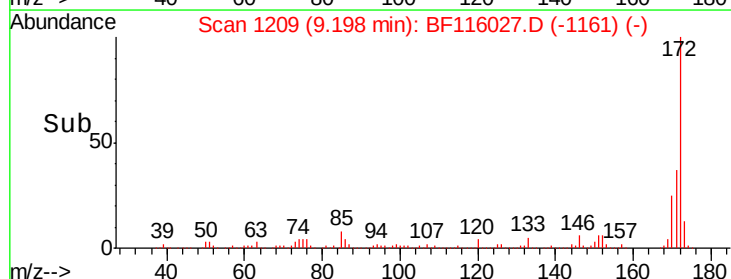
172 100

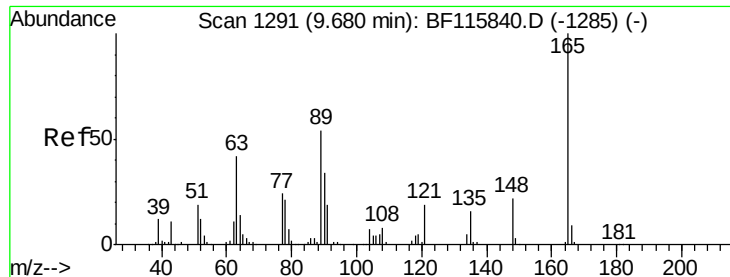
171 36.6 29.1 43.7

170 25.1 20.1 30.1



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

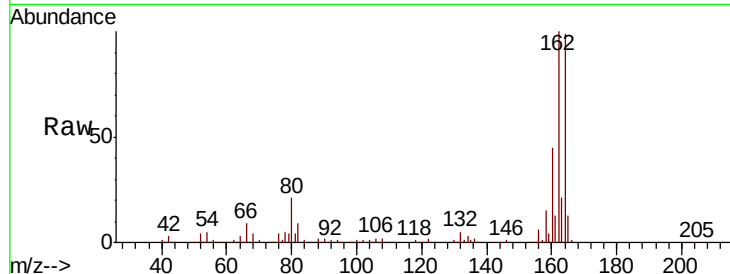




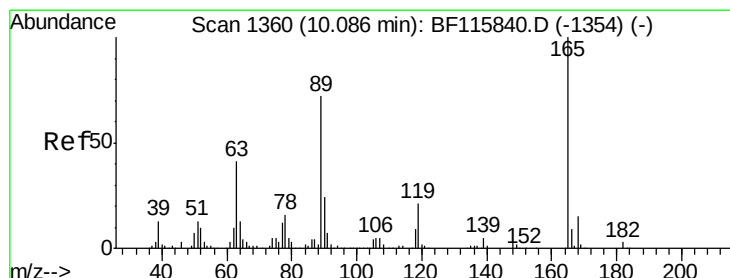
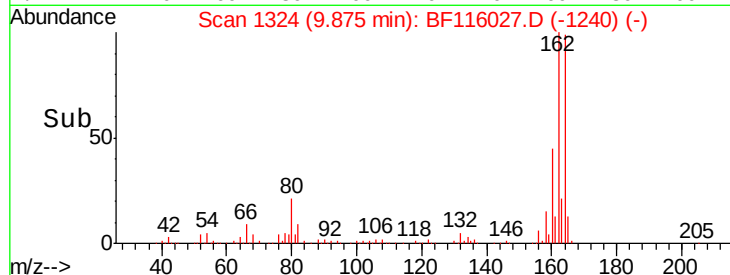
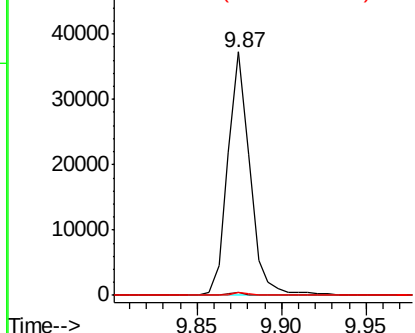
#51  
 2,6-Dinitrotoluene  
 Concen: 8.591 ng  
 RT: 9.87 min Scan# 1324  
 Delta R.T. 0.19 min  
 Lab File: BF116027.D  
 Acq: 6 Aug 2019 21:35

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.0   | 39.4  | 59.2# |
| 89      | 1.2   | 43.0  | 64.6# |



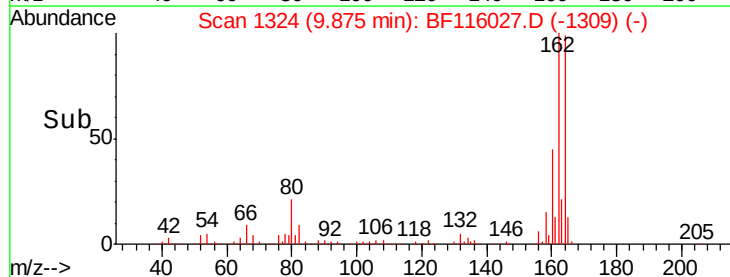
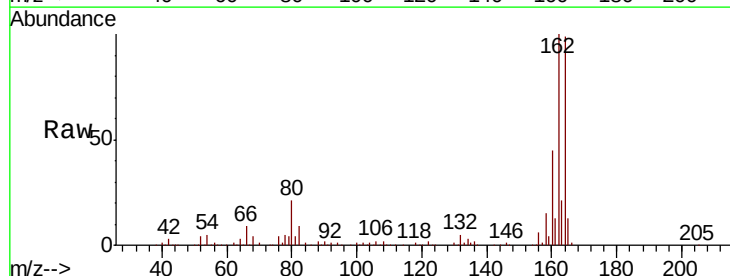
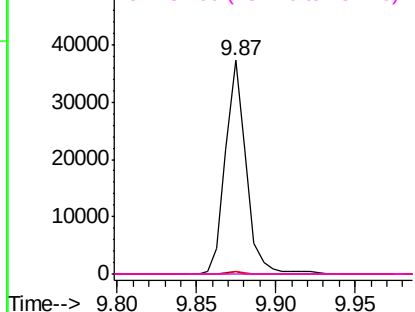
Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BF1  
 Ion 89.00 (88.70 to 89.70): BF1



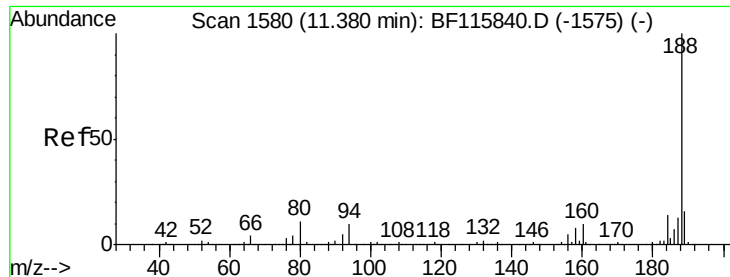
#57  
 2,4-Dinitrotoluene  
 Concen: 6.453 ng  
 RT: 9.87 min Scan# 1324  
 Delta R.T. -0.21 min  
 Lab File: BF116027.D  
 Acq: 6 Aug 2019 21:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.0   | 33.2  | 49.8# |
| 89      | 1.2   | 57.3  | 85.9# |
| 182     | 0.0   | 2.1   | 3.1#  |

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



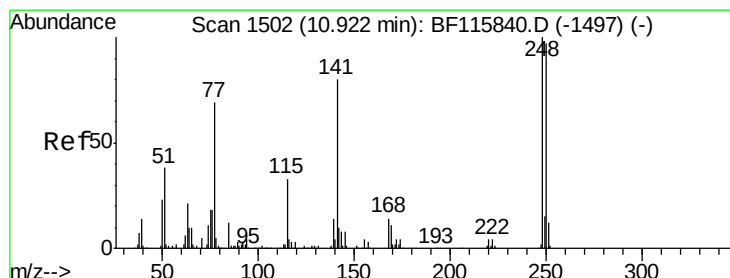
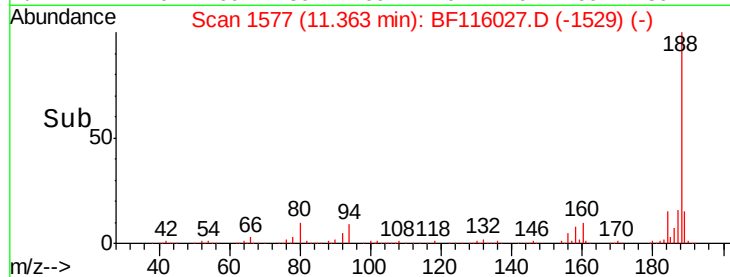
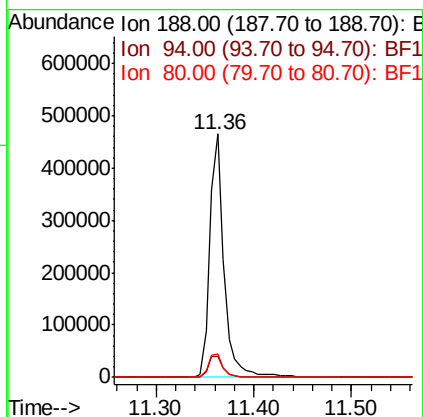
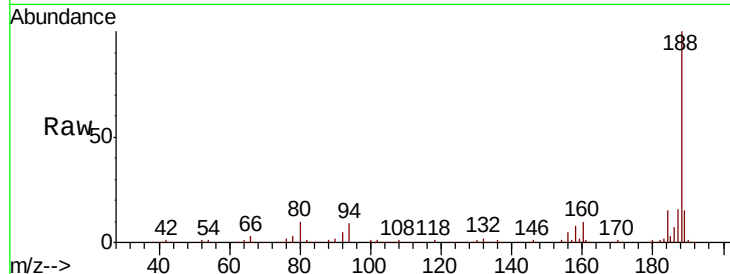




#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.36 min Scan# 1577  
 Delta R.T. -0.02 min  
 Lab File: BF116027.D  
 Acq: 6 Aug 2019 21:35

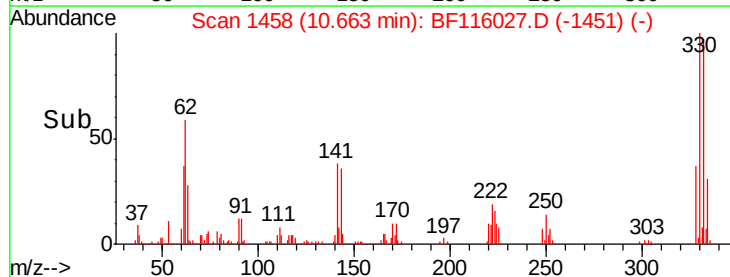
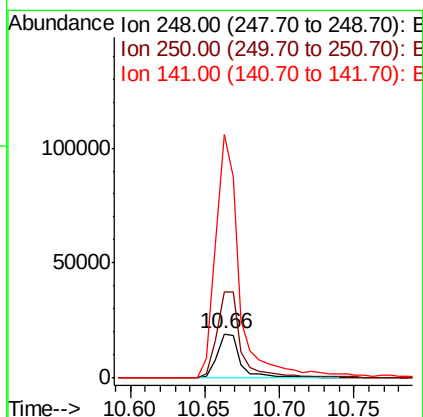
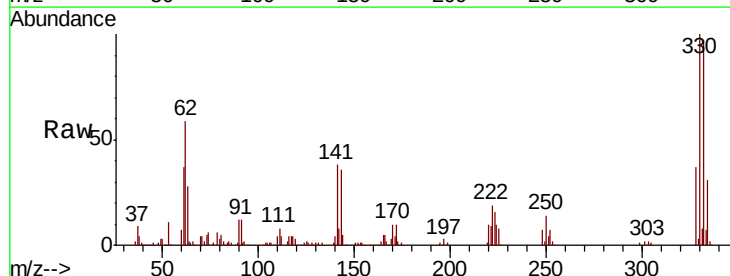
Instrument :  
 BNA\_F  
 ClientSampleId :

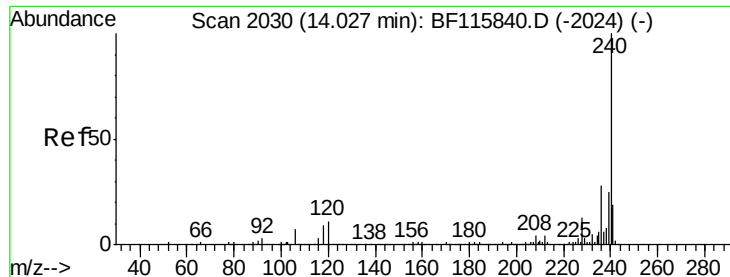
Tot Ion:188 Resp: 469817  
 Ion Ratio Lower Upper  
 188 100  
 94 8.7 8.0 12.0  
 80 9.8 8.6 12.8



#67  
 4-Bromophenyl-phenylether  
 Concen: 4.271 ng  
 RT: 10.66 min Scan# 1458  
 Delta R.T. -0.26 min  
 Lab File: BF116027.D  
 Acq: 6 Aug 2019 21:35

Tgt Ion:248 Resp: 21480  
 Ion Ratio Lower Upper  
 248 100  
 250 195.6 77.8 116.6#  
 141 553.5 64.3 96.5#

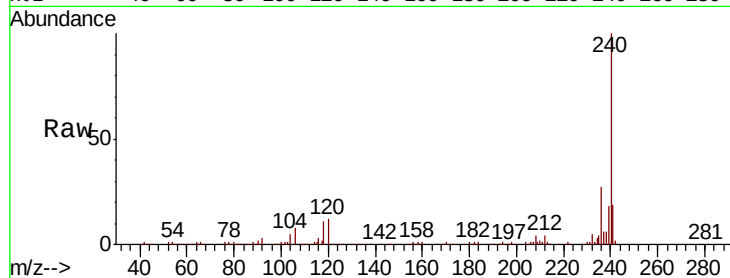




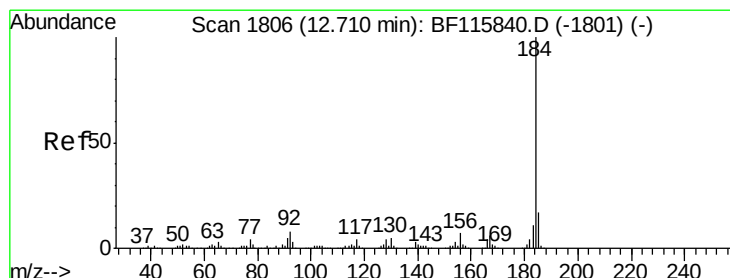
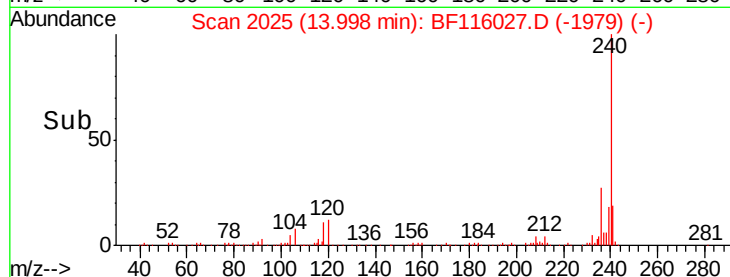
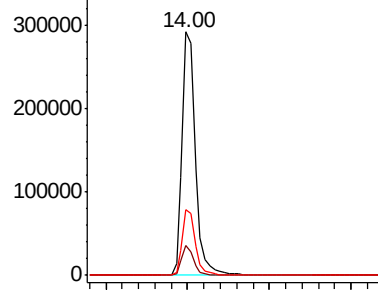
#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.00 min Scan# 2025  
Delta R.T. -0.03 min  
Lab File: BF116027.D  
Acq: 6 Aug 2019 21:35

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:240 Resp: 329699  
Ion Ratio Lower Upper  
240 100  
120 12.1 8.5 12.7  
236 26.8 22.2 33.2

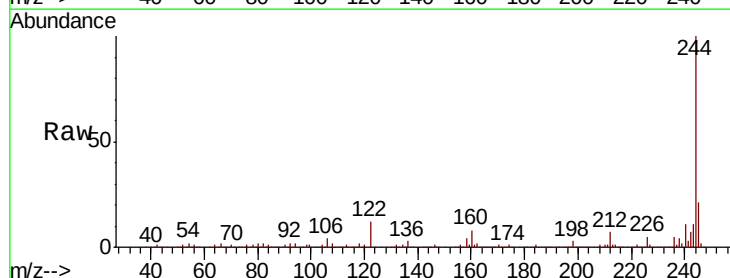


Abundance Ion 240.00 (239.70 to 240.70): E  
Ion 120.00 (119.70 to 120.70): E  
Ion 236.00 (235.70 to 236.70): E

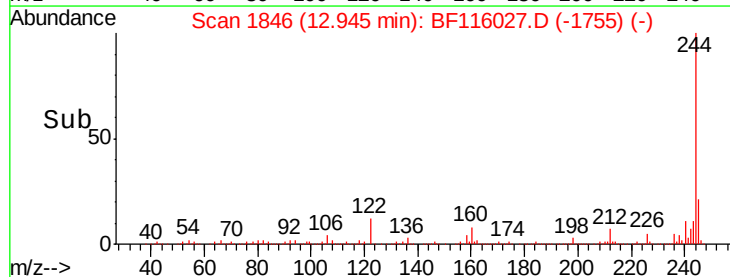
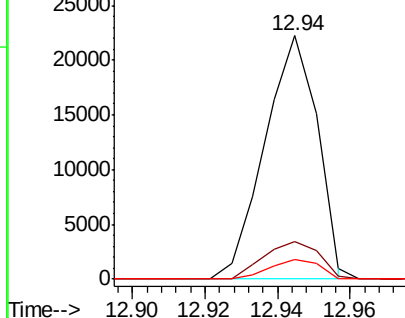


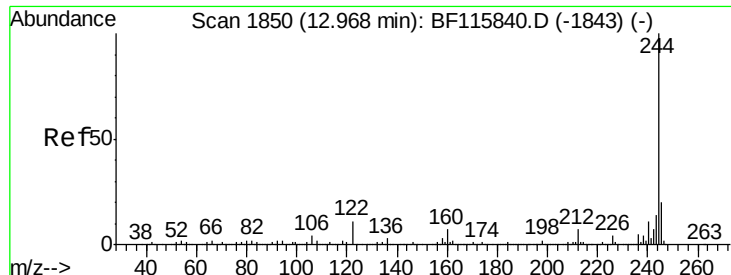
#77  
Benzidine  
Concen: 2.022 ng  
RT: 12.94 min Scan# 1846  
Delta R.T. 0.24 min  
Lab File: BF116027.D  
Acq: 6 Aug 2019 21:35

Tgt Ion:184 Resp: 22517  
Ion Ratio Lower Upper  
184 100  
185 15.3 13.4 20.2  
183 7.9 9.1 13.7#



Abundance Ion 184.00 (183.70 to 184.70): E  
Ion 185.00 (184.70 to 185.70): E  
Ion 183.00 (182.70 to 183.70): E

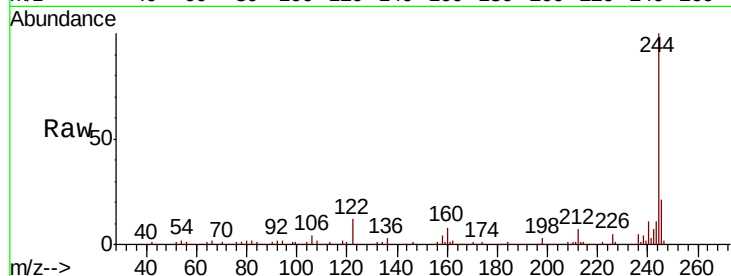




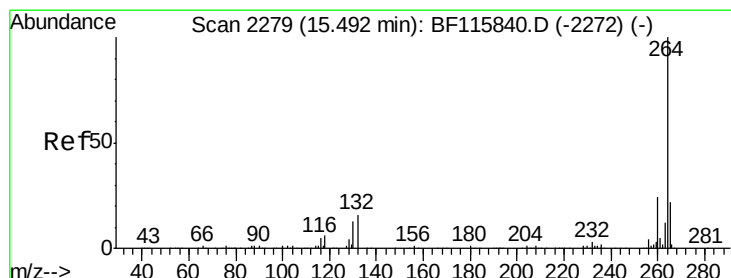
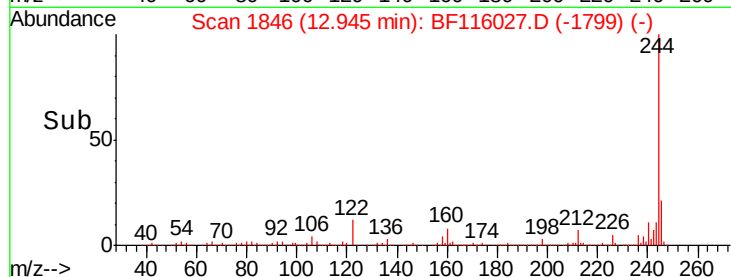
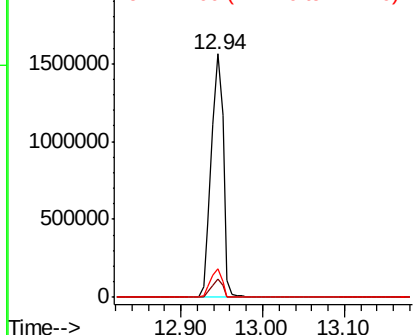
#79  
 Terphenyl-d14  
 Concen: 103.038 ng  
 RT: 12.94 min Scan# 1846  
 Delta R.T. -0.02 min  
 Lab File: BF116027.D  
 Acq: 6 Aug 2019 21:35

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:244 Resp: 1612184  
 Ion Ratio Lower Upper  
 244 100  
 212 7.4 5.6 8.4  
 122 11.7 8.6 13.0

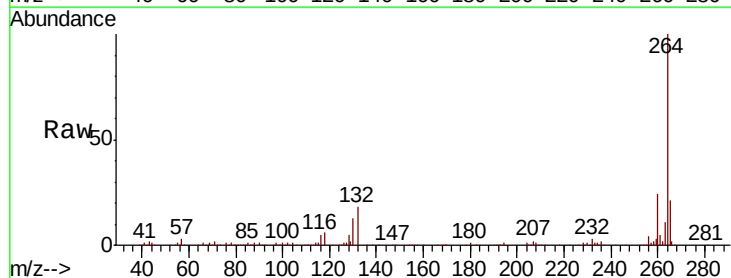


Abundance Ion 244.00 (243.70 to 244.70): E  
 Ion 212.00 (211.70 to 212.70): E  
 Ion 122.00 (121.70 to 122.70): E



#87  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 15.46 min Scan# 2274  
 Delta R.T. -0.03 min  
 Lab File: BF116027.D  
 Acq: 6 Aug 2019 21:35

Tgt Ion:264 Resp: 369283  
 Ion Ratio Lower Upper  
 264 100  
 260 24.2 19.4 29.2  
 265 20.7 17.5 26.3



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

