

Data Path : \\74.0.250.170\TERASTORAGE\SVOASRV\HPCHEM1\BNA\_F\DATA\BF062919\  
 Data File : BF115319.D  
 Acq On : 29 Jun 2019 13:34  
 Operator : HP/JU  
 Sample : K3554-02  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SAMPLE-11

Quant Time: Jun 30 02:29:57 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF062119.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jun 28 05:26:43 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.60  | 152  | 177602   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 7.88  | 136  | 690677   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 9.62  | 164  | 339930   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 11.10 | 188  | 703109   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 13.71 | 240  | 605595   | 20.00 | ng    | 0.00     |
| 87) Perylene-d12          | 15.08 | 264  | 619912   | 20.00 | ng    | 0.00     |

## System Monitoring Compounds

|                          |       |     |         |        |    |      |
|--------------------------|-------|-----|---------|--------|----|------|
| 5) 2-Fluorophenol        | 5.20  | 112 | 1118445 | 97.18  | ng | 0.00 |
| 7) Phenol-d6             | 6.24  | 99  | 1419556 | 101.62 | ng | 0.00 |
| 23) Nitrobenzene-d5      | 7.16  | 82  | 828195  | 73.76  | ng | 0.00 |
| 42) 2,4,6-Tribromophenol | 10.41 | 330 | 405801  | 113.20 | ng | 0.00 |
| 45) 2-Fluorobiphenyl     | 8.95  | 172 | 1524772 | 76.19  | ng | 0.00 |
| 79) Terphenyl-d14        | 12.68 | 244 | 1826389 | 64.12  | ng | 0.00 |

## Target Compounds

|                                |       |     |        |        |    | Qvalue |
|--------------------------------|-------|-----|--------|--------|----|--------|
| 2) 1,4-Dioxane                 | 2.30  | 88  | 355    | 0.065  | ng | # 27   |
| 4) n-Nitrosodimethylamine      | 2.77  | 42  | 115    | 0.019  | ng | # 1    |
| 6) Aniline                     | 6.25  | 93  | 355    | 0.018  | ng | # 1    |
| 8) 2-Chlorophenol              | 6.38  | 128 | 322    | 0.025  | ng | # 1    |
| 9) Benzaldehyde                | 6.24  | 77  | 2029   | 0.223  | ng | # 1    |
| 10) Phenol                     | 6.25  | 94  | 14742  | 0.901  | ng | 96     |
| 11) bis(2-Chloroethyl)ether    | 6.37  | 93  | 1664   | 0.138  | ng | # 1    |
| 15) Benzyl Alcohol             | 6.75  | 79  | 13729  | 1.350  | ng | # 45   |
| 16) 2,2'-oxybis(1-Chloropropan | 6.65  | 45  | 107    | 0.006  | ng | 67     |
| 22) Acetophenone               | 7.01  | 105 | 219    | 0.014  | ng | # 8    |
| 24) Nitrobenzene               | 7.16  | 77  | 2531   | 0.205  | ng | # 31   |
| 31) Naphthalene                | 7.90  | 128 | 750    | 0.022  | ng | # 67   |
| 37) 2-Methylnaphthalene        | 8.59  | 142 | 483    | 0.021  | ng | # 45   |
| 38) 1-Methylnaphthalene        | 8.68  | 142 | 259    | 0.012  | ng | # 92   |
| 46) 1,1'-Biphenyl              | 9.05  | 154 | 2959   | 0.109  | ng | 92     |
| 47) 2-Chloronaphthalene        | 9.14  | 162 | 416    | 0.019  | ng | # 39   |
| 48) 2-Nitroaniline             | 9.35  | 65  | 2513   | 0.391  | ng | # 1    |
| 49) Acenaphthylene             | 9.48  | 152 | 709    | 0.021  | ng | # 59   |
| 50) Dimethylphthalate          | 9.35  | 163 | 323378 | 12.930 | ng | 99     |
| 51) 2,6-Dinitrotoluene         | 9.35  | 165 | 3250   | 0.563  | ng | # 12   |
| 52) Acenaphthene               | 9.62  | 154 | 1331   | 0.062  | ng | # 5    |
| 55) Dibenzofuran               | 9.82  | 168 | 179    | 0.006  | ng | # 44   |
| 60) Diethylphthalate           | 10.05 | 149 | 816    | 0.032  | ng | # 58   |
| 63) Azobenzene                 | 10.41 | 77  | 2167   | 0.092  | ng | # 20   |
| 66) n-Nitrosodiphenylamine     | 10.40 | 169 | 11669  | 0.533  | ng | # 42   |
| 71) Phenanthrene               | 11.12 | 178 | 3377   | 0.089  | ng | 97     |
| 72) Anthracene                 | 11.12 | 178 | 3377   | 0.088  | ng | 98     |
| 73) Carbazole                  | 11.32 | 167 | 718    | 0.021  | ng | # 58   |
| 74) Di-n-butylphthalate        | 11.67 | 149 | 3870   | 0.098  | ng | # 88   |
| 75) Fluoranthene               | 12.29 | 202 | 4921   | 0.130  | ng | 97     |
| 77) Benzidine                  | 12.68 | 184 | 23585  | 0.877  | ng | # 93   |
| 78) Pyrene                     | 12.52 | 202 | 5736   | 0.123  | ng | 97     |
| 80) Butylbenzylphthalate       | 13.15 | 149 | 265    | 0.013  | ng | # 31   |
| 81) Benzo(a)anthracene         | 13.70 | 228 | 5690   | 0.131  | ng | # 78   |

Data Path : \\74.0.250.170\TERASTORAGE\SVOASRV\HPCHEM1\BNA\_F\DATA\BF062919\  
 Data File : BF115319.D  
 Acq On : 29 Jun 2019 13:34  
 Operator : HP/JU  
 Sample : K3554-02  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SAMPLE-11

Quant Time: Jun 30 02:29:57 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF062119.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jun 28 05:26:43 2019  
 Response via : Initial Calibration

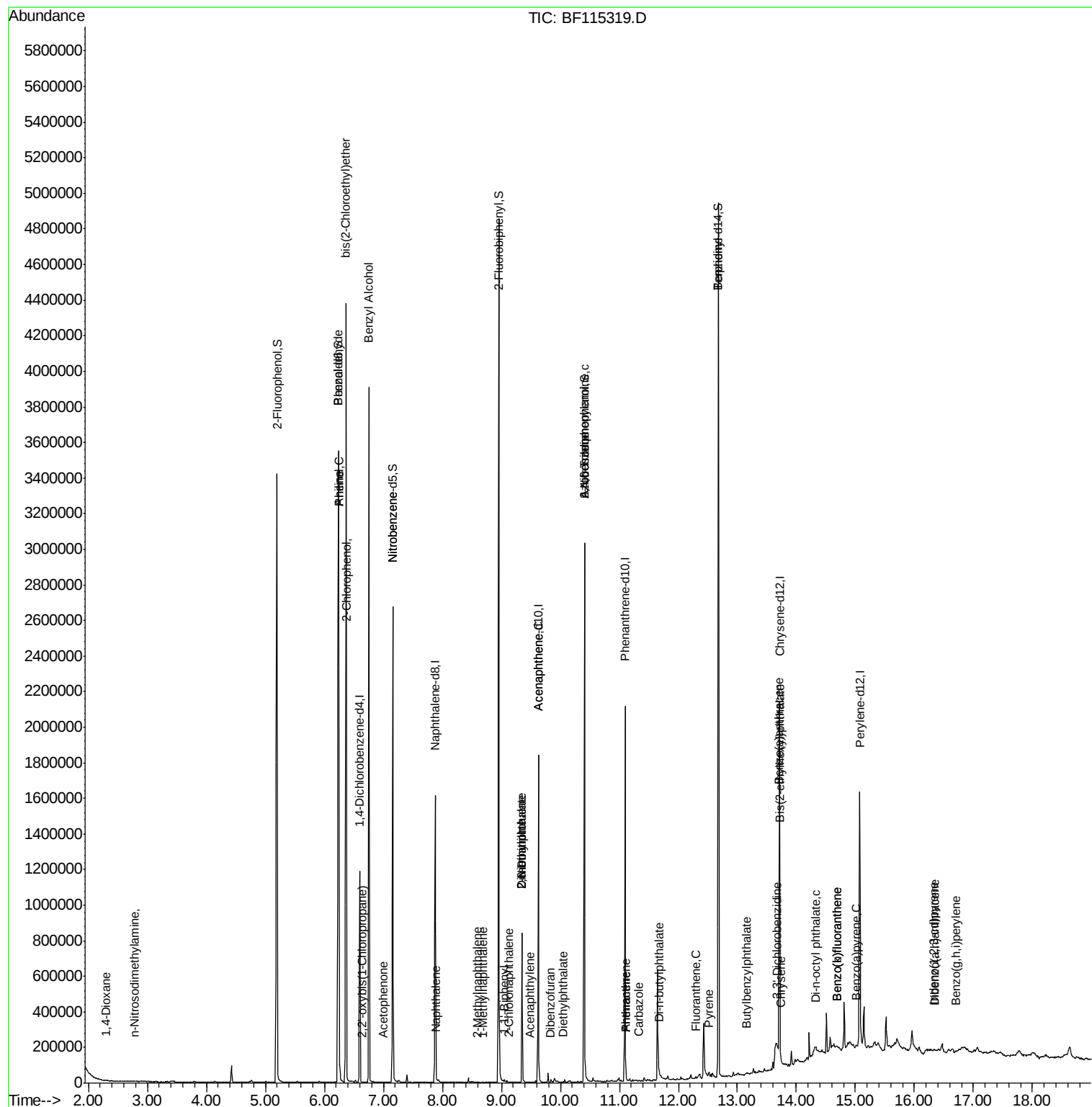
| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 82) 3,3'-Dichlorobenzidine     | 13.67 | 252  | 279      | 0.018 | ng    | # 1      |
| 83) Chrysene                   | 13.74 | 228  | 3544     | 0.089 | ng    | # 92     |
| 84) Bis(2-ethylhexyl)phthalate | 13.72 | 149  | 8935     | 0.332 | ng    | # 94     |
| 85) Di-n-octyl phthalate       | 14.33 | 149  | 1951     | 0.043 | ng    | # 1      |
| 86) Indeno(1,2,3-cd)pyrene     | 16.33 | 276  | 4060     | 0.086 | ng    | # 74     |
| 88) Benzo(b)fluoranthene       | 14.70 | 252  | 10235    | 0.265 | ng    | # 55     |
| 89) Benzo(k)fluoranthene       | 14.70 | 252  | 10235    | 0.295 | ng    | # 58     |
| 90) Benzo(a)pyrene             | 15.02 | 252  | 3554     | 0.102 | ng    | # 66     |
| 91) Dibenzo(a,h)anthracene     | 16.35 | 278  | 1953     | 0.060 | ng    | # 1      |
| 92) Benzo(g,h,i)perylene       | 16.70 | 276  | 4216     | 0.128 | ng    | # 78     |

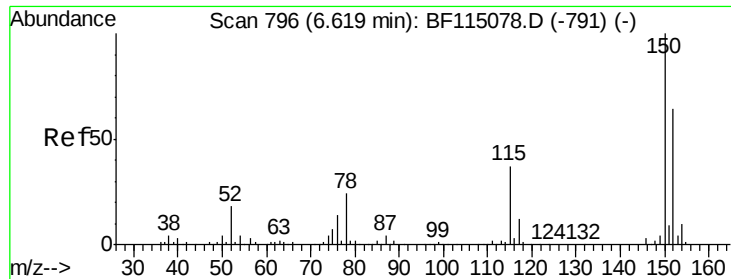
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : \\74.0.250.170\TERASTORAGE\SVOASRV\HPCHEM1\BNA\_F\DATA\BF062919\  
Data File : BF115319.D  
Acq On : 29 Jun 2019 13:34  
Operator : HP/JU  
Sample : K3554-02  
Misc :  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SAMPLE-11

Quant Time: Jun 30 02:29:57 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF062119.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Jun 28 05:26:43 2019  
Response via : Initial Calibration



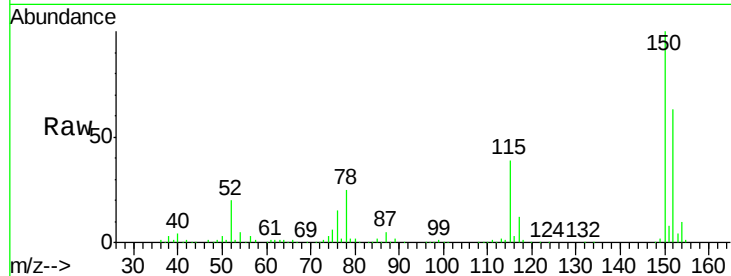


#1

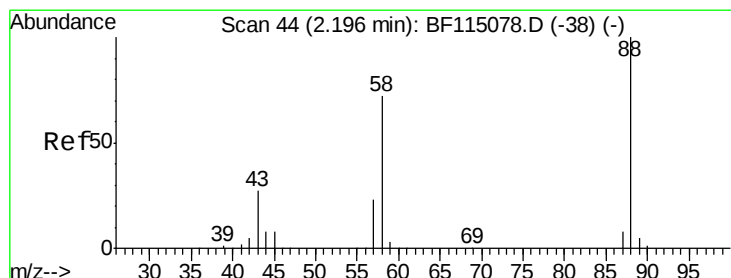
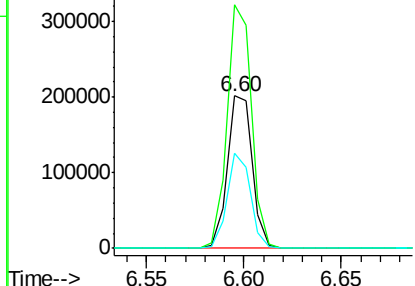
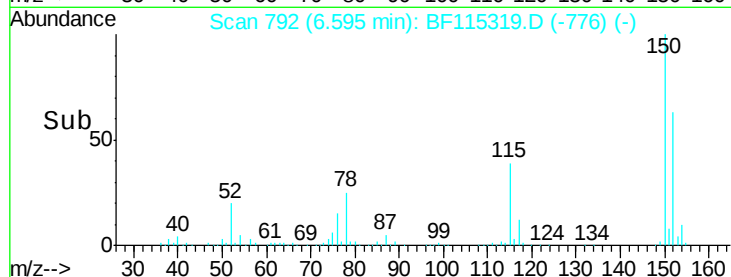
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.60 min Scan# 792  
Delta R.T. -0.01 min  
Lab File: BF115319.D  
Acq: 29 Jun 2019 13:34

Instrument :  
BNA\_F  
ClientSampleId :  
SAMPLE-11

Tgt Ion:152 Resp: 177602  
Ion Ratio Lower Upper  
152 100  
150 159.5 124.2 186.2  
115 62.0 46.1 69.1



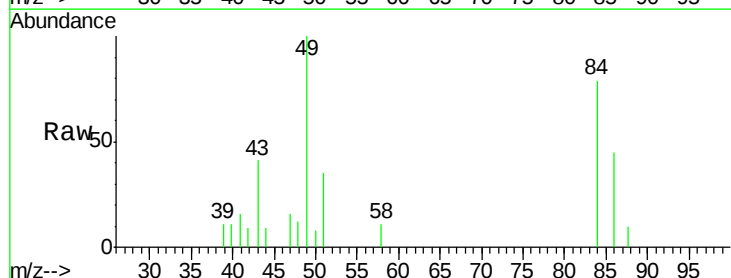
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



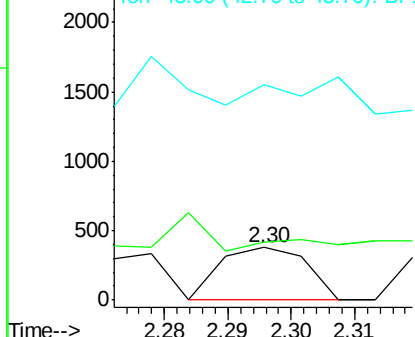
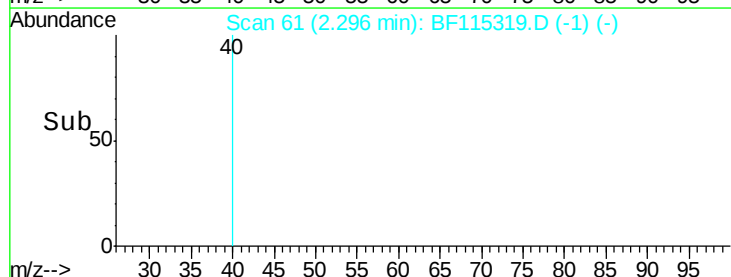
#2

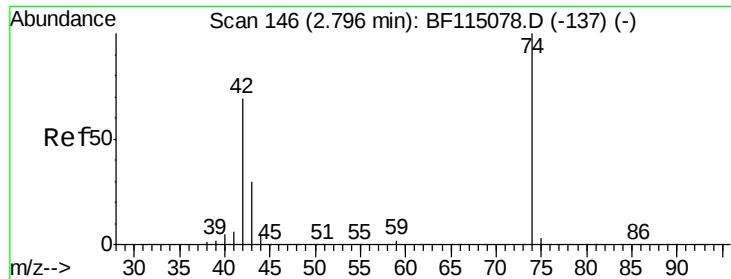
1,4-Dioxane  
Concen: 0.065 ng  
RT: 2.30 min Scan# 61  
Delta R.T. 0.14 min  
Lab File: BF115319.D  
Acq: 29 Jun 2019 13:34

Tgt Ion: 88 Resp: 355  
Ion Ratio Lower Upper  
88 100  
58 0.0 56.1 84.1#  
43 47.6 21.3 31.9#



Abundance Ion 88.00 (87.70 to 88.70): BF1  
Ion 58.00 (57.70 to 58.70): BF1  
Ion 43.00 (42.70 to 43.70): BF1



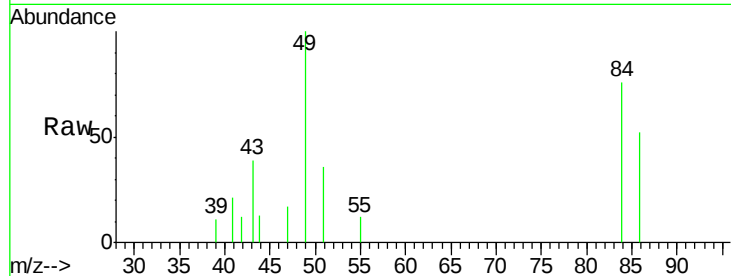


#4

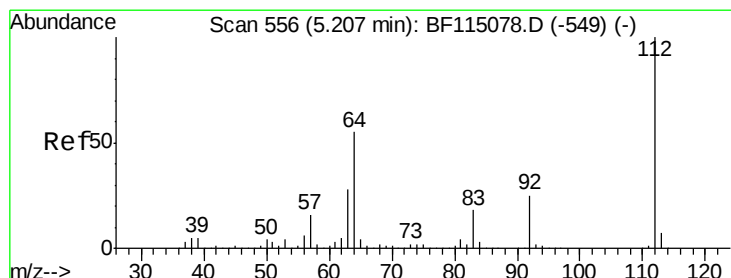
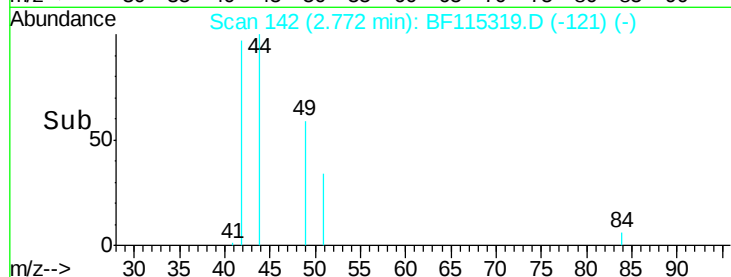
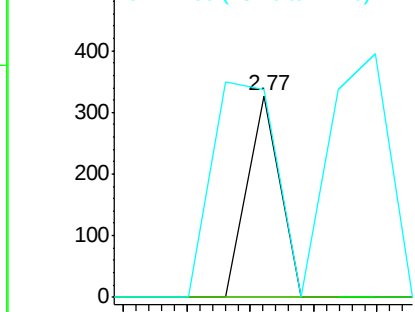
n-Nitrosodimethylamine  
 Concen: 0.019 ng  
 RT: 2.77 min Scan# 142  
 Delta R.T. 0.02 min  
 Lab File: BF115319.D  
 Acq: 29 Jun 2019 13:34

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SAMPLE-11

Tgt Ion: 42 Resp: 115  
 Ion Ratio Lower Upper  
 42 100  
 74 0.0 116.6 175.0#  
 44 103.1 5.3 7.9#



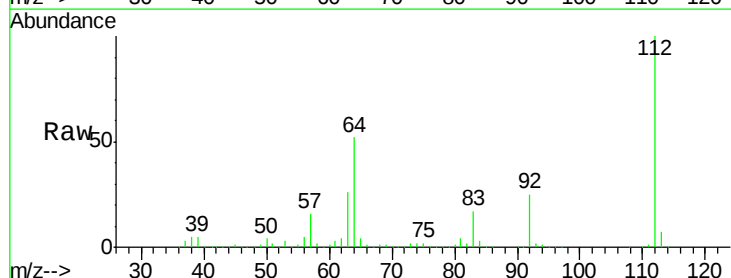
Abundance Ion 42.00 (41.70 to 42.70): BF1  
 Ion 74.00 (73.70 to 74.70): BF1  
 Ion 44.00 (43.70 to 44.70): BF1



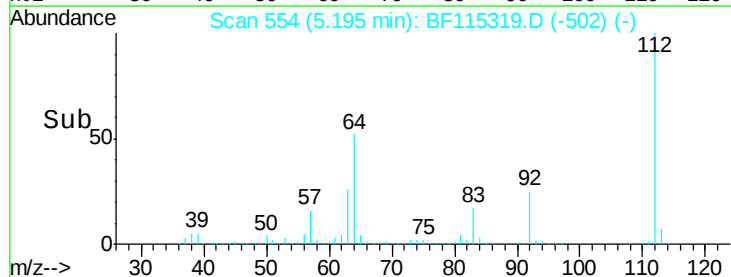
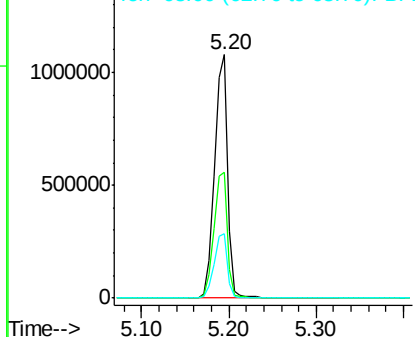
#5

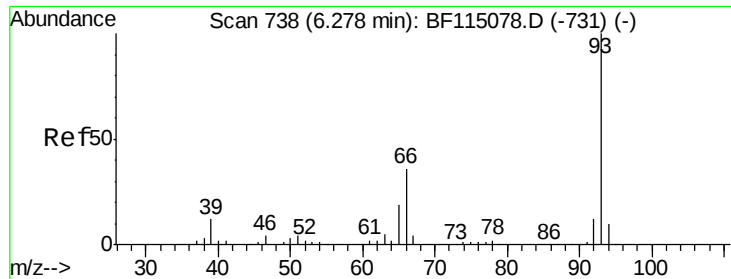
2-Fluorophenol  
 Concen: 97.181 ng  
 RT: 5.20 min Scan# 554  
 Delta R.T. 0.01 min  
 Lab File: BF115319.D  
 Acq: 29 Jun 2019 13:34

Tgt Ion: 112 Resp: 1118445  
 Ion Ratio Lower Upper  
 112 100  
 64 51.8 43.8 65.6  
 63 26.4 22.2 33.4



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





#6

Aniline

Concen: 0.018 ng

RT: 6.25 min Scan# 733

Delta R.T. -0.01 min

Lab File: BF115319.D

Acq: 29 Jun 2019 13:34

Instrument :

BNA\_F

ClientSampleId :

SAMPLE-11

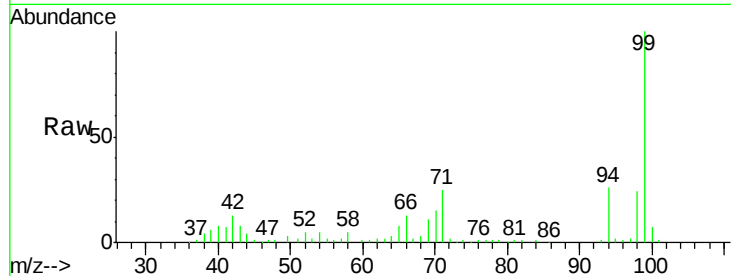
Tgt Ion: 93 Resp: 355

Ion Ratio Lower Upper

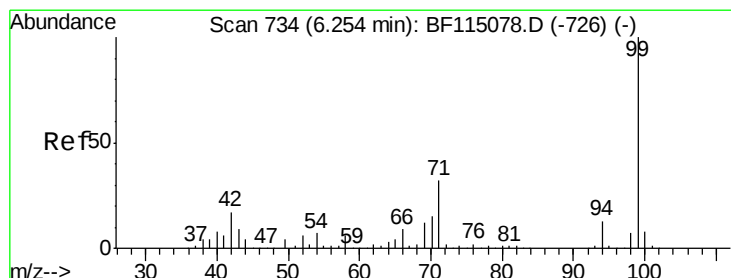
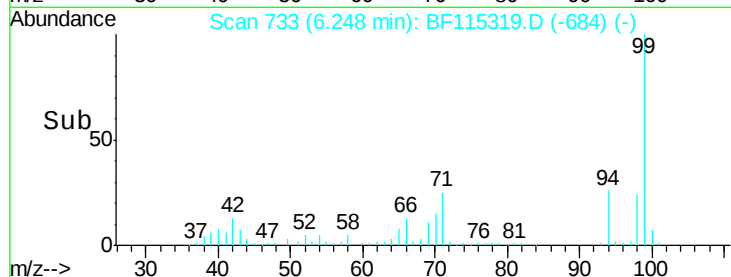
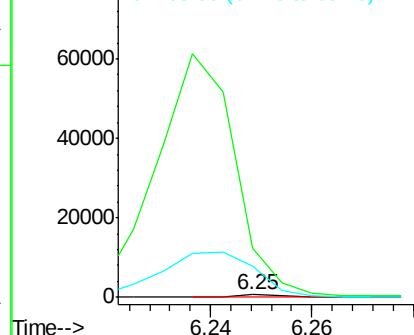
93 100

66 1962.9 30.0 45.0#

65 1235.9 15.6 23.4#



Abundance Ion 93.00 (92.70 to 93.70): BF1  
Ion 66.00 (65.70 to 66.70): BF1  
Ion 65.00 (64.70 to 65.70): BF1



#7

Phenol-d6

Concen: 101.622 ng

RT: 6.24 min Scan# 731

Delta R.T. 0.00 min

Lab File: BF115319.D

Acq: 29 Jun 2019 13:34

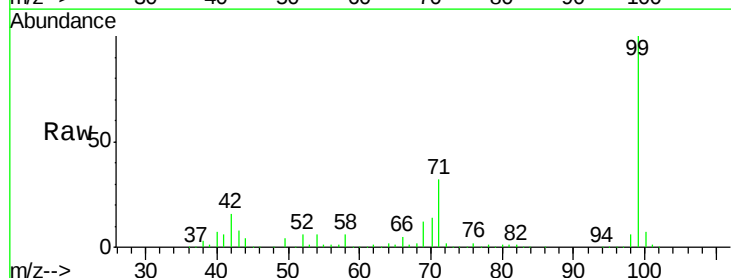
Tgt Ion: 99 Resp: 1419556

Ion Ratio Lower Upper

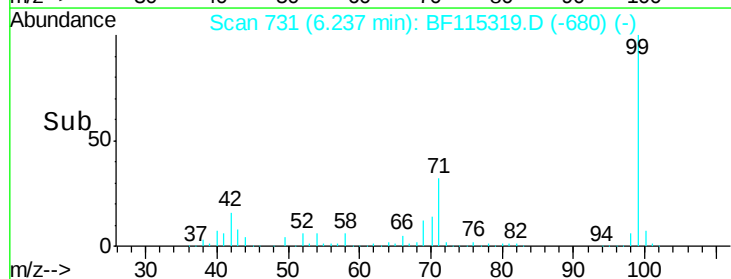
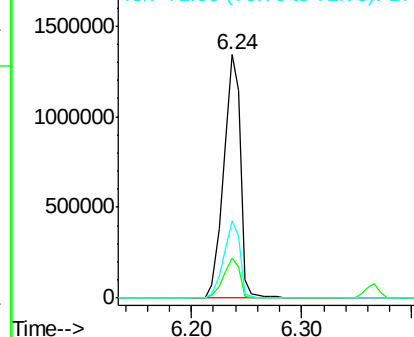
99 100

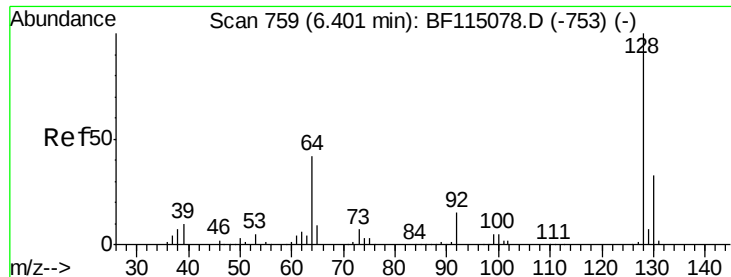
42 16.4 13.6 20.4

71 31.8 25.5 38.3



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





#8

2-Chlorophenol

Concen: 0.025 ng

RT: 6.38 min Scan# 755

Delta R.T. -0.01 min

Lab File: BF115319.D

Acq: 29 Jun 2019 13:34

Instrument :

BNA\_F

ClientSampleId :

SAMPLE-11

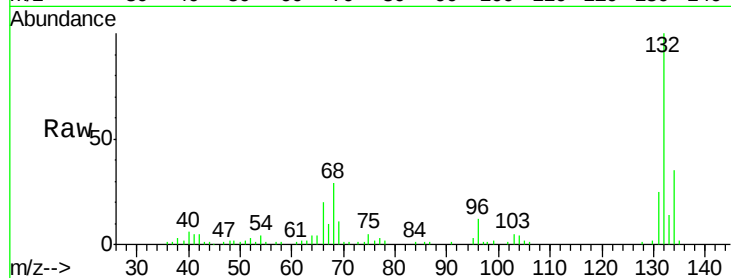
Tgt Ion:128 Resp: 322

Ion Ratio Lower Upper

128 100

130 237.1 12.9 52.9#

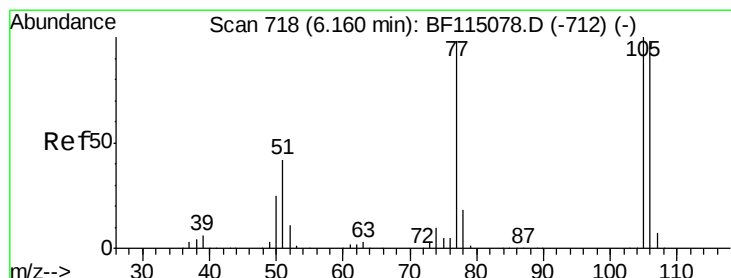
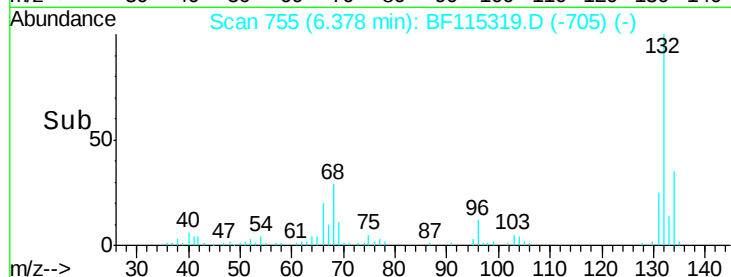
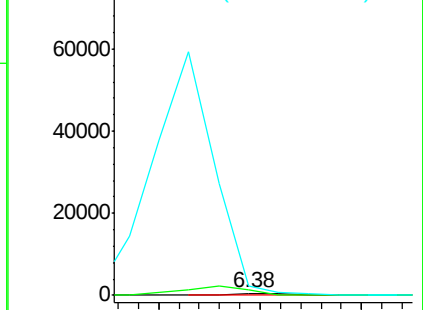
64 414.2 22.9 62.9#



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 130.00 (129.70 to 130.70): E

Ion 64.00 (63.70 to 64.70): BF1



#9

Benzaldehyde

Concen: 0.223 ng

RT: 6.24 min Scan# 731

Delta R.T. 0.09 min

Lab File: BF115319.D

Acq: 29 Jun 2019 13:34

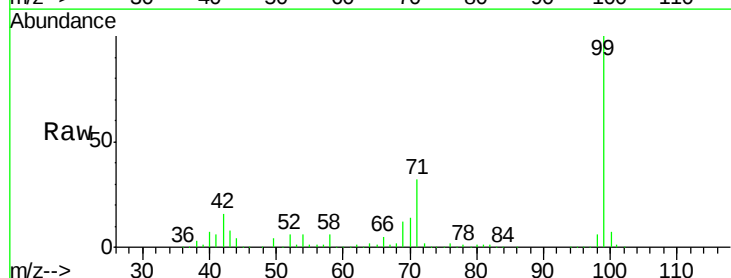
Tgt Ion: 77 Resp: 2029

Ion Ratio Lower Upper

77 100

105 0.0 81.5 121.5#

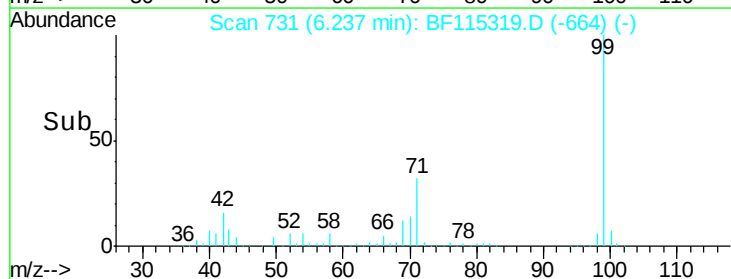
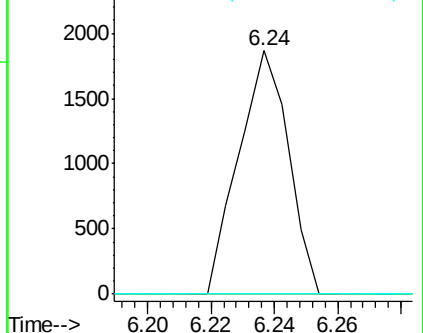
106 0.0 79.7 119.7#

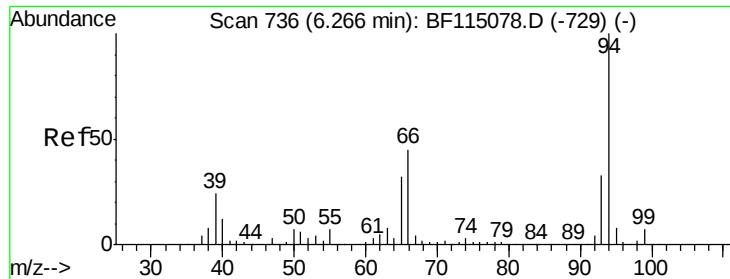


Abundance Ion 77.00 (76.70 to 77.70): BF1

Ion 105.00 (104.70 to 105.70): E

Ion 106.00 (105.70 to 106.70): E





#10

Phenol

Concen: 0.901 ng

RT: 6.25 min Scan# 733

Delta R.T. -0.01 min

Lab File: BF115319.D

Acq: 29 Jun 2019 13:34

Instrument :

BNA\_F

ClientSampleId :

SAMPLE-11

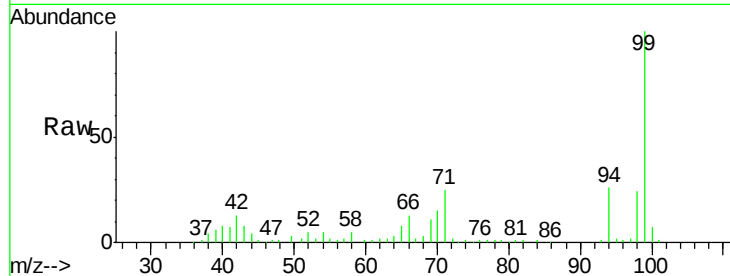
Tgt Ion: 94 Resp: 14742

Ion Ratio Lower Upper

94 100

65 30.3 11.9 51.9

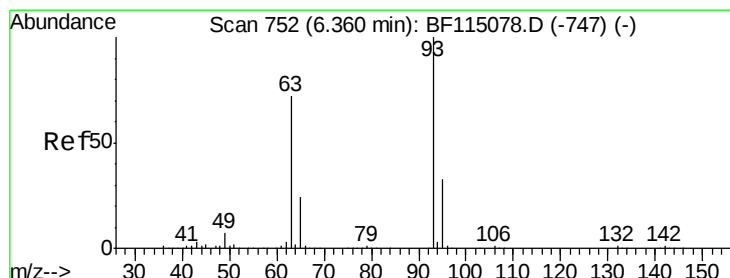
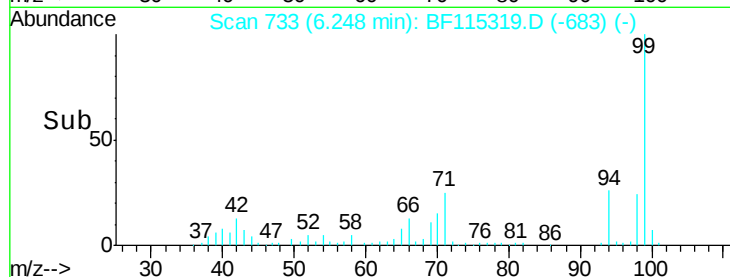
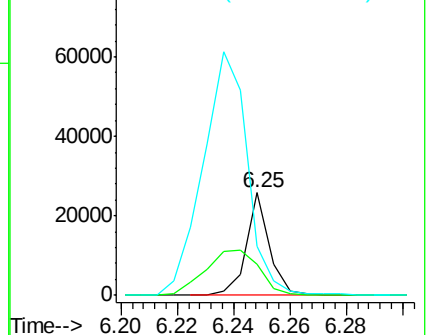
66 48.1 25.2 65.2



Abundance Ion 94.00 (93.70 to 94.70): BF1

Ion 65.00 (64.70 to 65.70): BF1

Ion 66.00 (65.70 to 66.70): BF1



#11

bis(2-Chloroethyl)ether

Concen: 0.138 ng

RT: 6.37 min Scan# 753

Delta R.T. 0.02 min

Lab File: BF115319.D

Acq: 29 Jun 2019 13:34

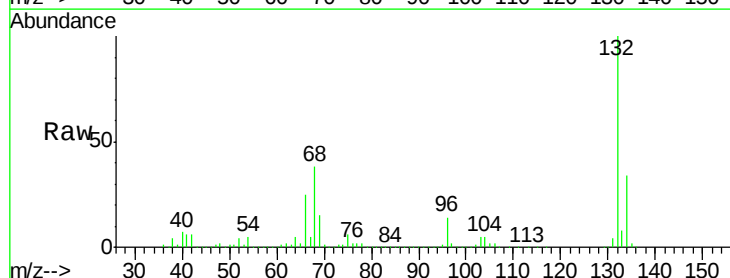
Tgt Ion: 93 Resp: 1664

Ion Ratio Lower Upper

93 100

63 667.2 51.5 91.5#

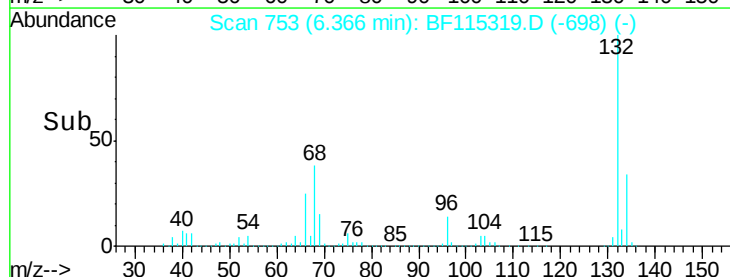
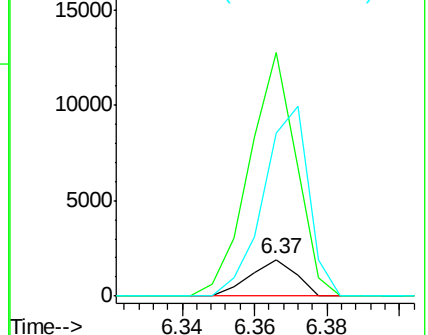
95 448.2 13.4 53.4#

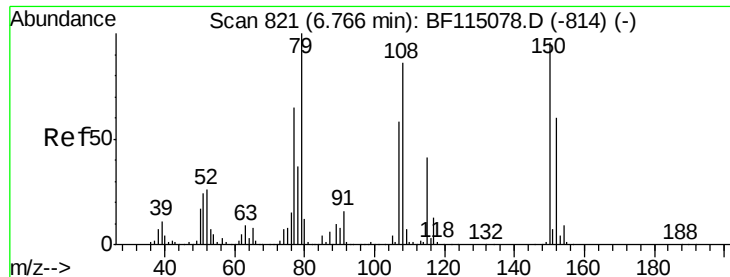


Abundance Ion 93.00 (92.70 to 93.70): BF1

Ion 63.00 (62.70 to 63.70): BF1

Ion 95.00 (94.70 to 95.70): BF1





#15

Benzyl Alcohol

Concen: 1.350 ng

RT: 6.75 min Scan# 819

Delta R.T. 0.01 min

Lab File: BF115319.D

Acq: 29 Jun 2019 13:34

Instrument :

BNA\_F

ClientSampleId :

SAMPLE-11

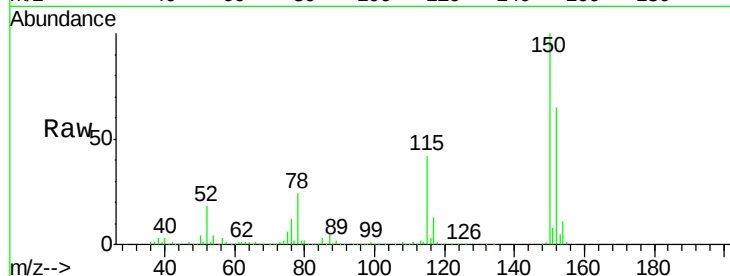
Tgt Ion: 79 Resp: 13729

Ion Ratio Lower Upper

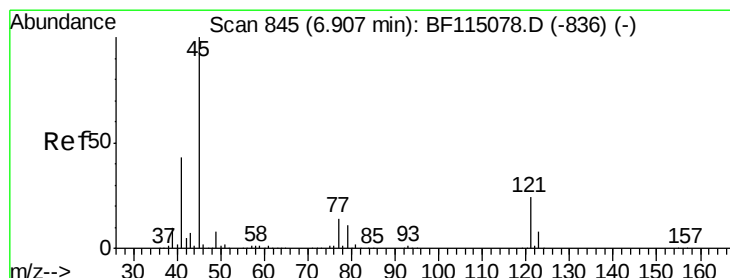
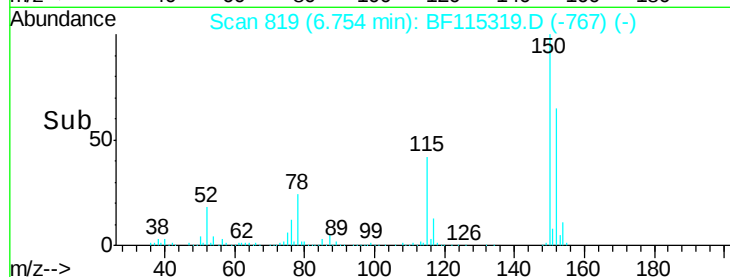
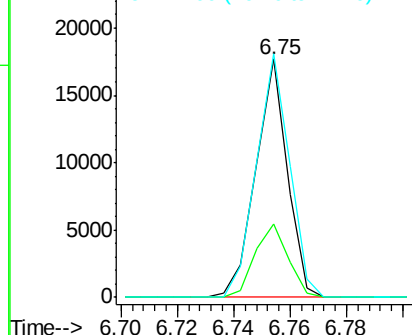
79 100

108 31.0 68.7 103.1#

77 102.3 51.7 77.5#



Abundance Ion 79.00 (78.70 to 79.70): BF1  
Ion 108.00 (107.70 to 108.70): BF1  
Ion 77.00 (76.70 to 77.70): BF1



#16

2,2'-oxybis(1-Chloropropane)

Concen: 0.006 ng

RT: 6.65 min Scan# 801

Delta R.T. -0.24 min

Lab File: BF115319.D

Acq: 29 Jun 2019 13:34

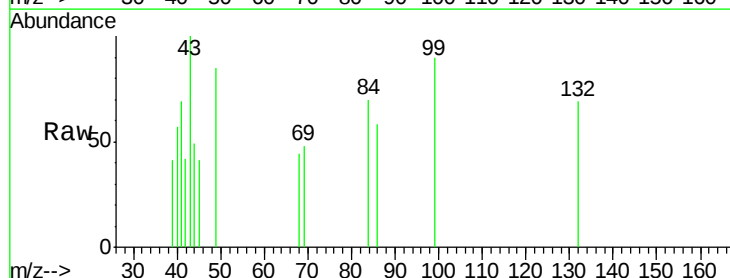
Tgt Ion: 45 Resp: 107

Ion Ratio Lower Upper

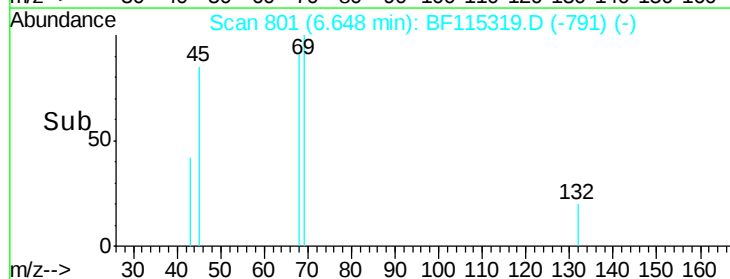
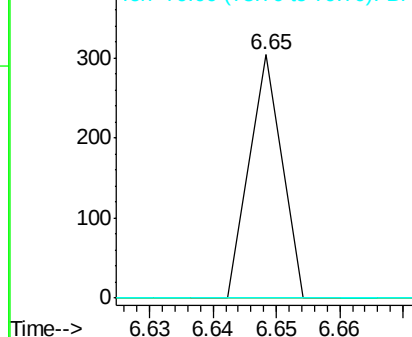
45 100

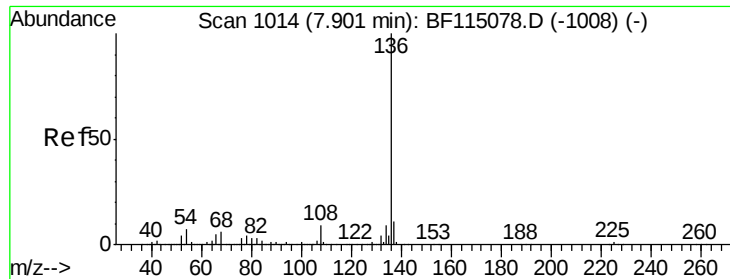
77 0.0 0.0 34.6

79 0.0 0.0 31.2



Abundance Ion 45.00 (44.70 to 45.70): BF1  
Ion 77.00 (76.70 to 77.70): BF1  
Ion 79.00 (78.70 to 79.70): BF1

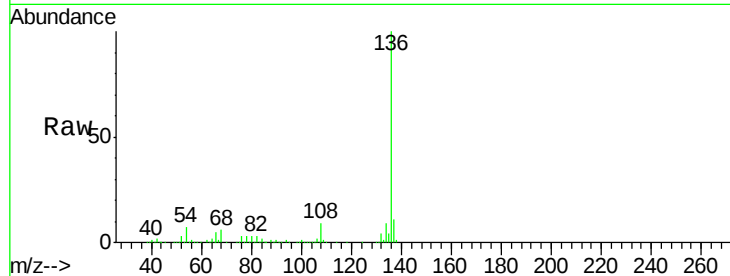




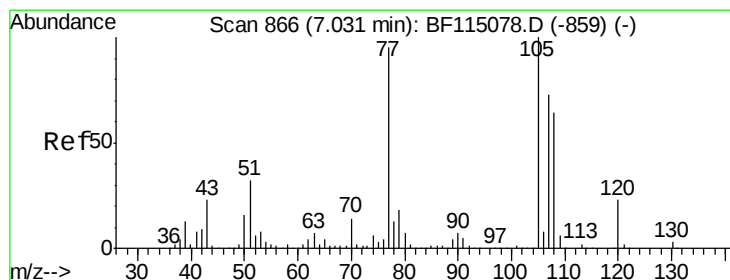
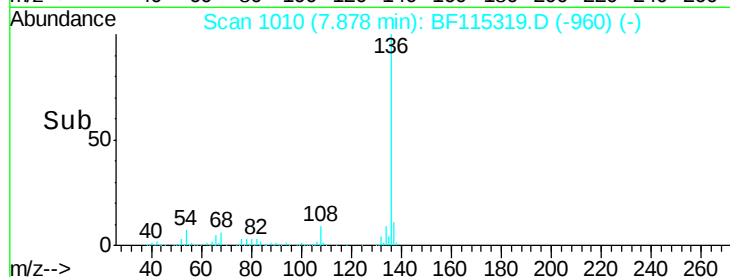
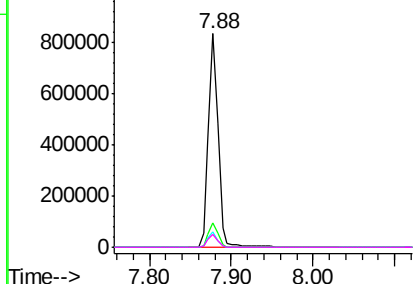
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 7.88 min Scan# 1010  
Delta R.T. -0.01 min  
Lab File: BF115319.D  
Acq: 29 Jun 2019 13:34

Instrument :  
BNA\_F  
ClientSampleId :  
SAMPLE-11

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 690677 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.1  | 8.9   | 13.3   |
| 54       | 7.0   | 5.6   | 8.4    |
| 68       | 6.1   | 4.8   | 7.2    |

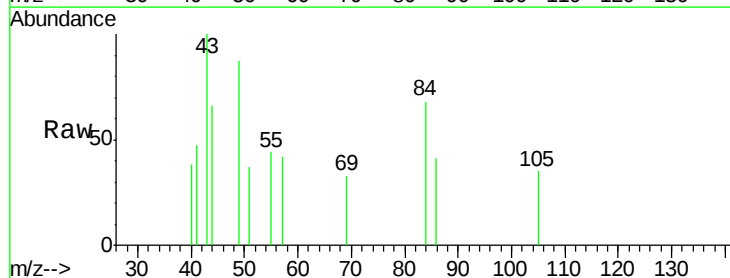


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF1  
Ion 68.00 (67.70 to 68.70): BF1

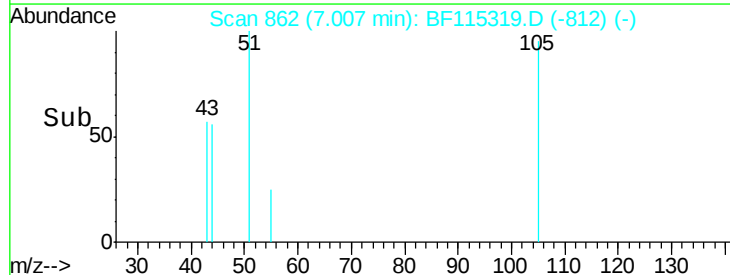
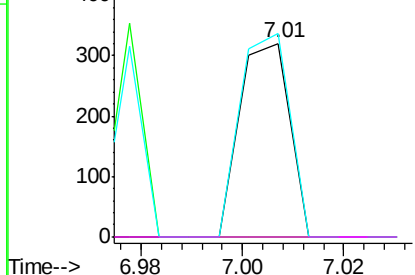


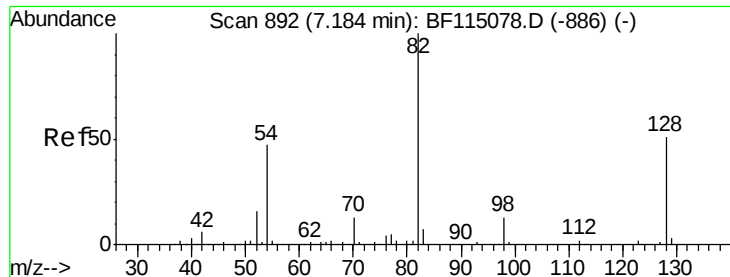
#22  
Acetophenone  
Concen: 0.014 ng  
RT: 7.01 min Scan# 862  
Delta R.T. -0.01 min  
Lab File: BF115319.D  
Acq: 29 Jun 2019 13:34

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 105   | Resp: | 219   |
| Ion      | Ratio | Lower | Upper |
| 105      | 100   |       |       |
| 71       | 0.0   | 1.9   | 2.9#  |
| 51       | 105.3 | 25.8  | 38.8# |
| 120      | 0.0   | 18.5  | 27.7# |



Abundance Ion 105.00 (104.70 to 105.70): E  
Ion 71.00 (70.70 to 71.70): BF1  
Ion 51.00 (50.70 to 51.70): BF1  
Ion 120.00 (119.70 to 120.70): E

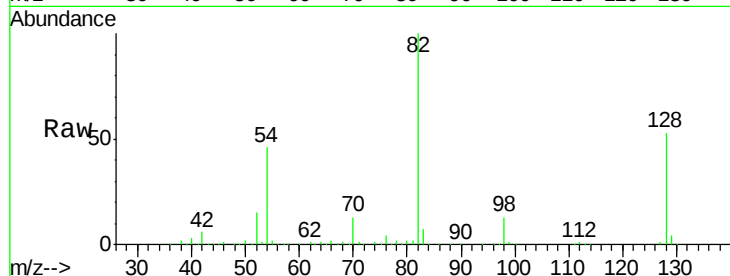




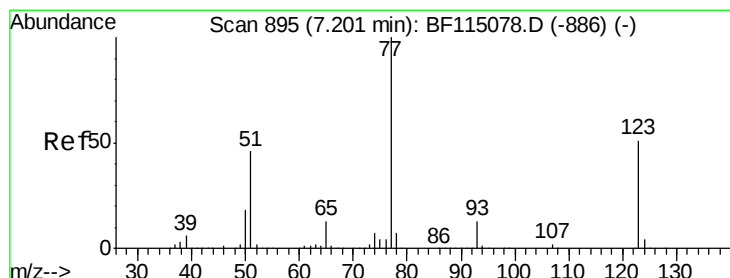
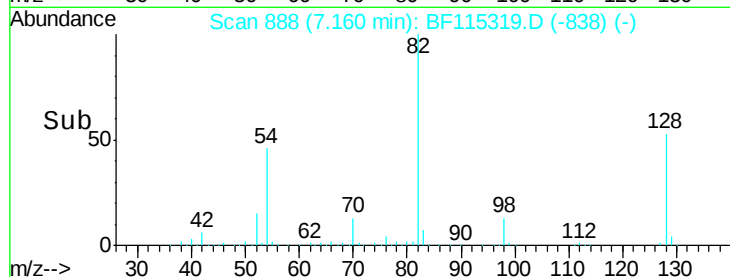
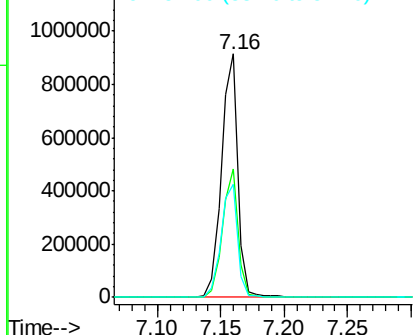
#23  
 Nitrobenzene-d5  
 Concen: 73.763 ng  
 RT: 7.16 min Scan# 888  
 Delta R.T. -0.01 min  
 Lab File: BF115319.D  
 Acq: 29 Jun 2019 13:34

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SAMPLE-11

Tgt Ion: 82 Resp: 828195  
 Ion Ratio Lower Upper  
 82 100  
 128 52.7 40.4 60.6  
 54 46.2 37.5 56.3

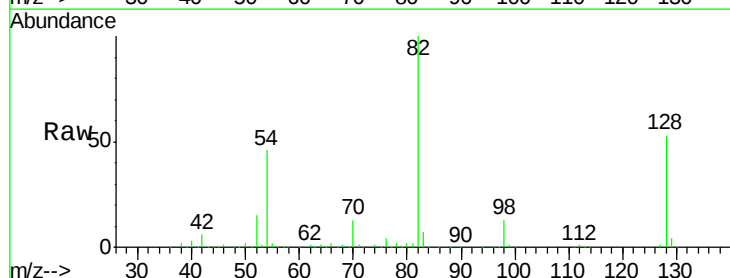


Abundance Ion 82.00 (81.70 to 82.70): BF1  
 Ion 128.00 (127.70 to 128.70): B  
 Ion 54.00 (53.70 to 54.70): BF1

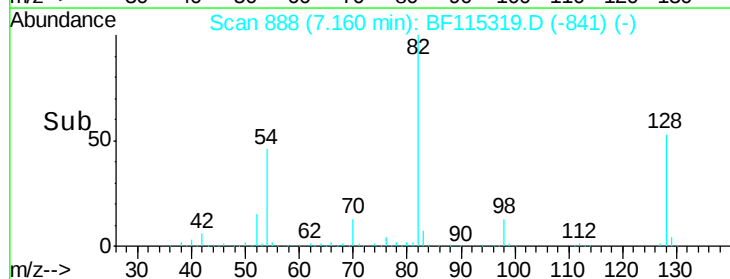
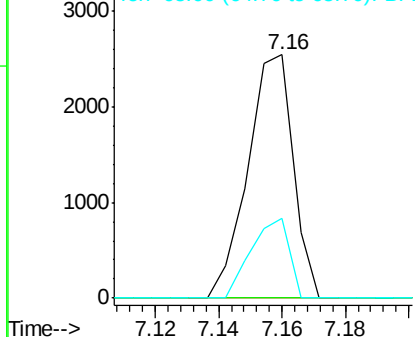


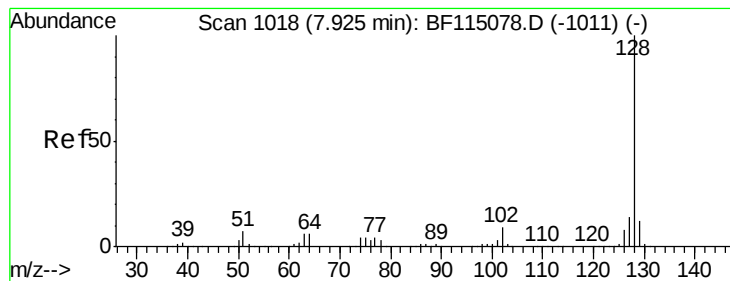
#24  
 Nitrobenzene  
 Concen: 0.205 ng  
 RT: 7.16 min Scan# 888  
 Delta R.T. -0.02 min  
 Lab File: BF115319.D  
 Acq: 29 Jun 2019 13:34

Tgt Ion: 77 Resp: 2531  
 Ion Ratio Lower Upper  
 77 100  
 123 0.0 41.0 61.6#  
 65 32.7 10.5 15.7#



Abundance Ion 77.00 (76.70 to 77.70): BF1  
 Ion 123.00 (122.70 to 123.70): B  
 Ion 65.00 (64.70 to 65.70): BF1





#31

Naphthalene

Concen: 0.022 ng

RT: 7.90 min Scan# 1014

Delta R.T. 0.00 min

Lab File: BF115319.D

Acq: 29 Jun 2019 13:34

Instrument :

BNA\_F

ClientSampleId :

SAMPLE-11

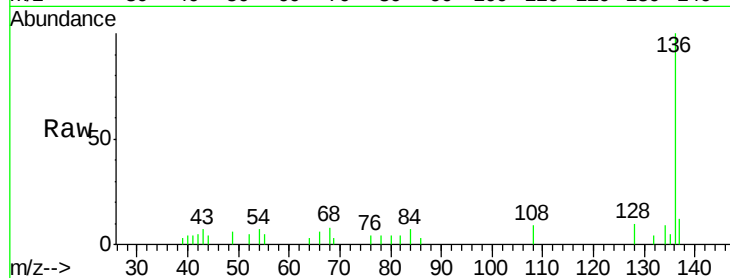
Tgt Ion:128 Resp: 750

Ion Ratio Lower Upper

128 100

129 0.0 9.6 14.4#

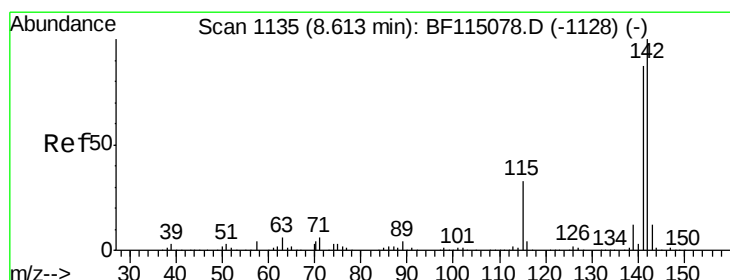
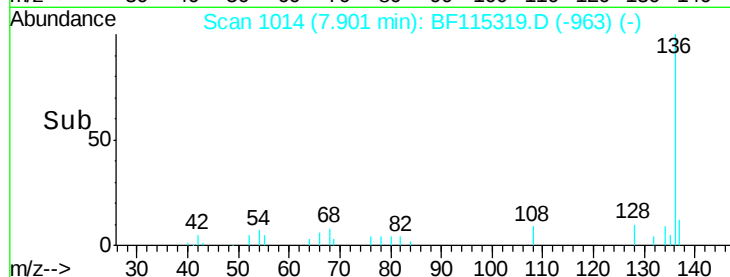
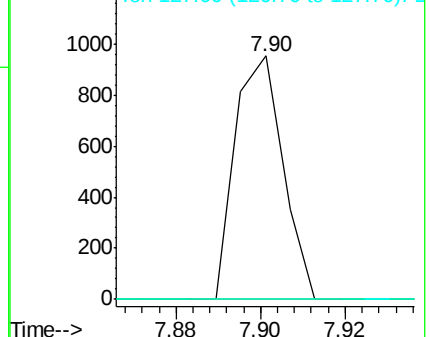
127 0.0 11.4 17.0#



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



#37

2-Methylnaphthalene

Concen: 0.021 ng

RT: 8.59 min Scan# 1131

Delta R.T. 0.00 min

Lab File: BF115319.D

Acq: 29 Jun 2019 13:34

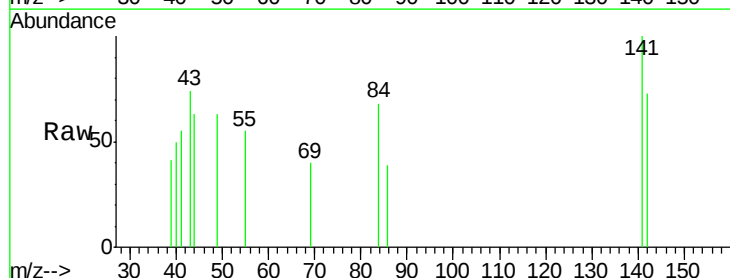
Tgt Ion:142 Resp: 483

Ion Ratio Lower Upper

142 100

141 137.3 69.8 104.6#

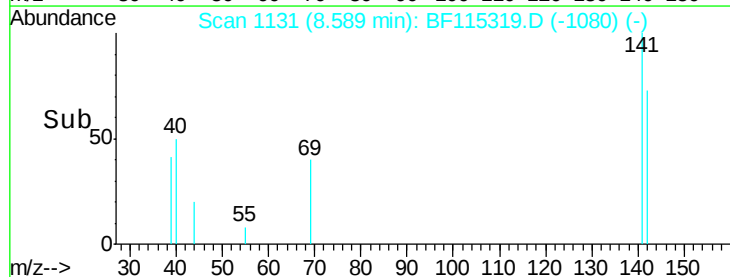
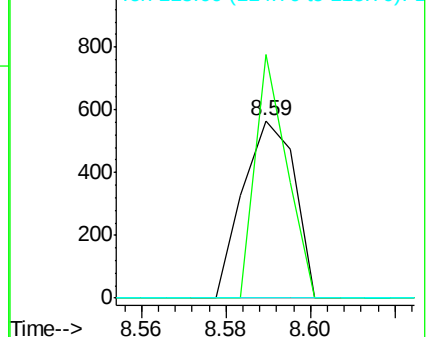
115 0.0 26.7 40.1#

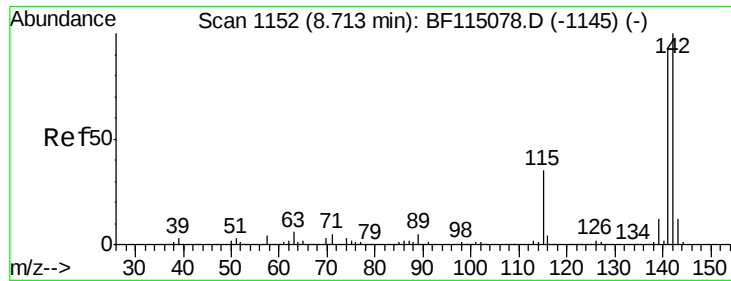


Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E

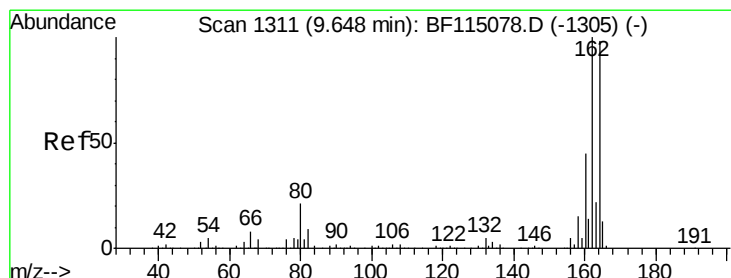
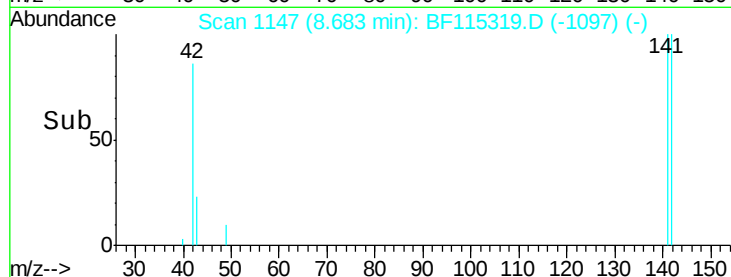
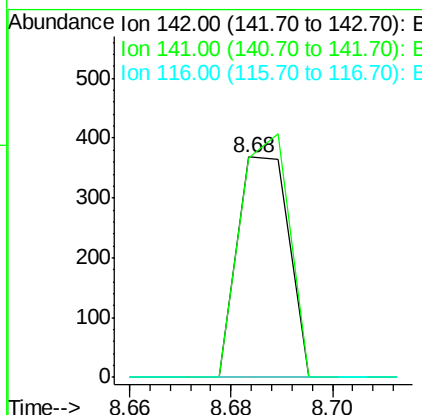
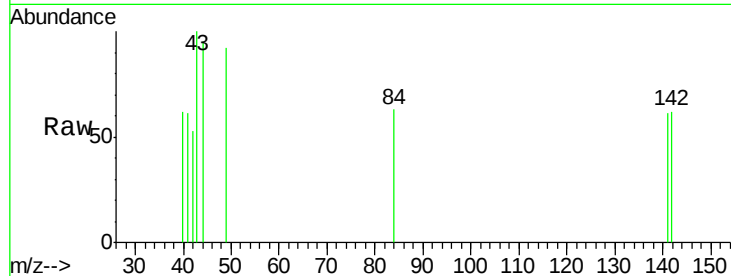




#38  
 1-Methylnaphthalene  
 Concen: 0.012 ng  
 RT: 8.68 min Scan# 1147  
 Delta R.T. -0.01 min  
 Lab File: BF115319.D  
 Acq: 29 Jun 2019 13:34

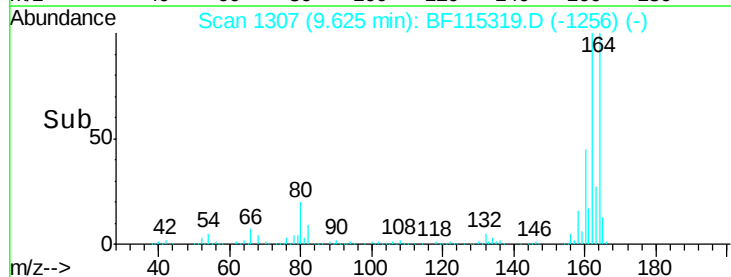
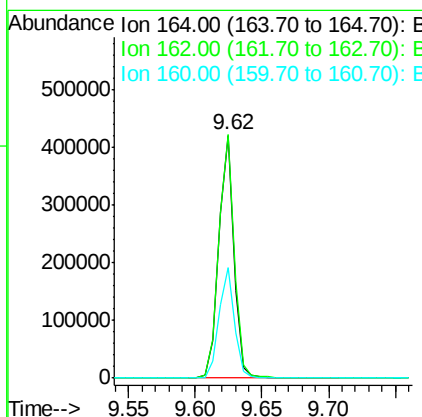
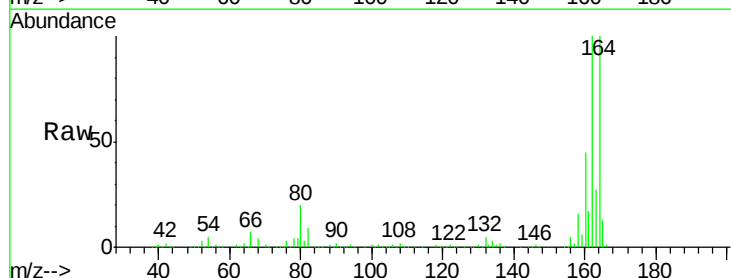
Instrument :  
 BNA\_F  
 ClientSampleId :  
 SAMPLE-11

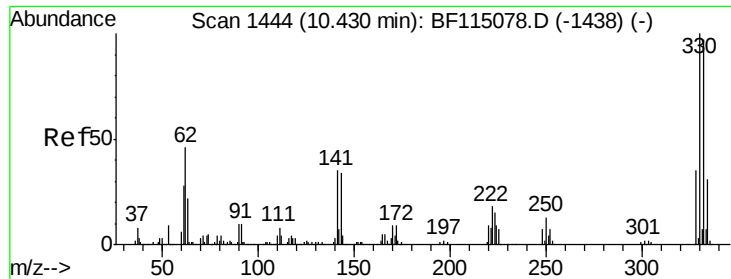
Tgt Ion:142 Resp: 259  
 Ion Ratio Lower Upper  
 142 100  
 141 99.7 73.8 110.8  
 116 0.0 2.8 4.2#



#39  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.62 min Scan# 1307  
 Delta R.T. 0.00 min  
 Lab File: BF115319.D  
 Acq: 29 Jun 2019 13:34

Tgt Ion:164 Resp: 339930  
 Ion Ratio Lower Upper  
 164 100  
 162 100.4 81.7 122.5  
 160 45.5 37.0 55.4

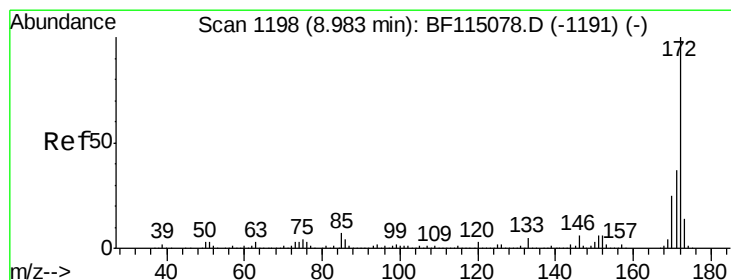
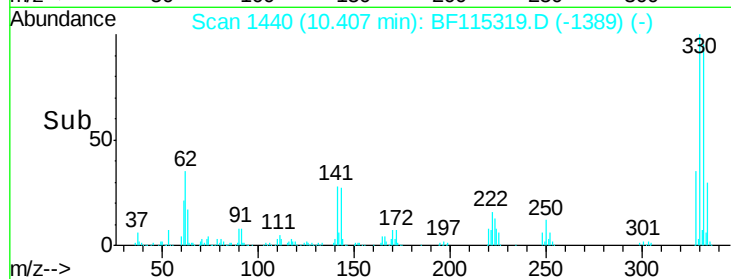
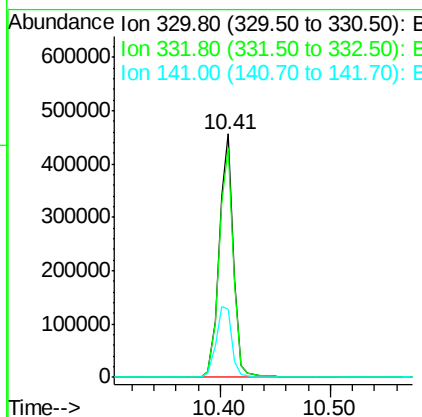
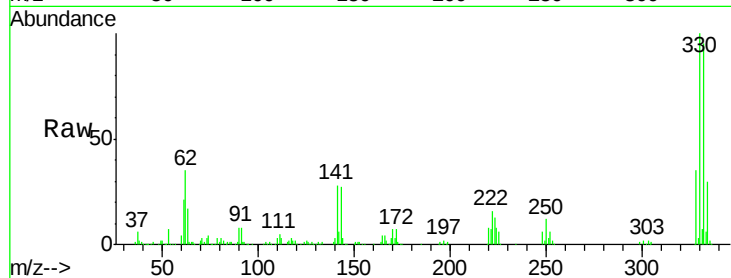




#42  
 2,4,6-Tribromophenol  
 Concen: 113.204 ng  
 RT: 10.41 min Scan# 1440  
 Delta R.T. 0.00 min  
 Lab File: BF115319.D  
 Acq: 29 Jun 2019 13:34

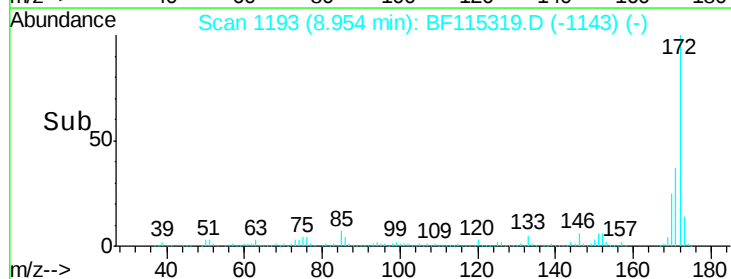
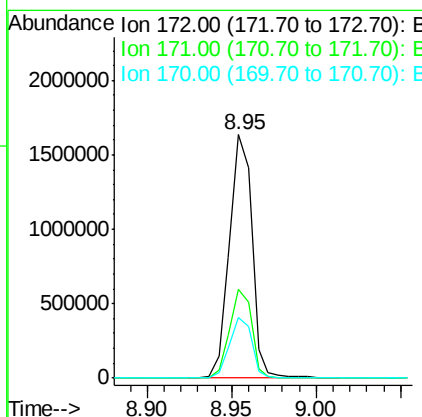
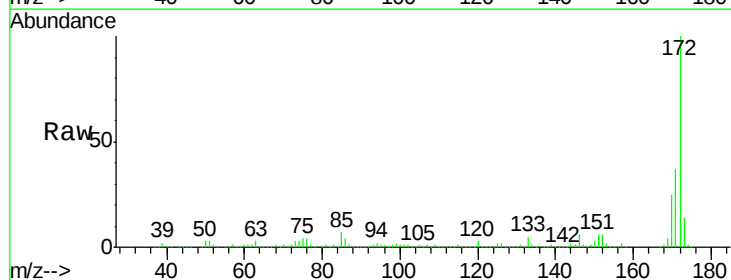
Instrument :  
 BNA\_F  
 ClientSampleId :  
 SAMPLE-11

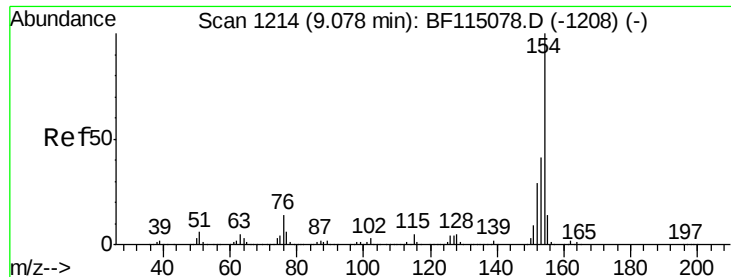
Tgt Ion:330 Resp: 405801  
 Ion Ratio Lower Upper  
 330 100  
 332 96.1 77.3 115.9  
 141 32.4 28.2 42.2



#45  
 2-Fluorobiphenyl  
 Concen: 76.192 ng  
 RT: 8.95 min Scan# 1193  
 Delta R.T. -0.01 min  
 Lab File: BF115319.D  
 Acq: 29 Jun 2019 13:34

Tgt Ion:172 Resp: 1524772  
 Ion Ratio Lower Upper  
 172 100  
 171 36.5 29.8 44.6  
 170 24.7 20.3 30.5

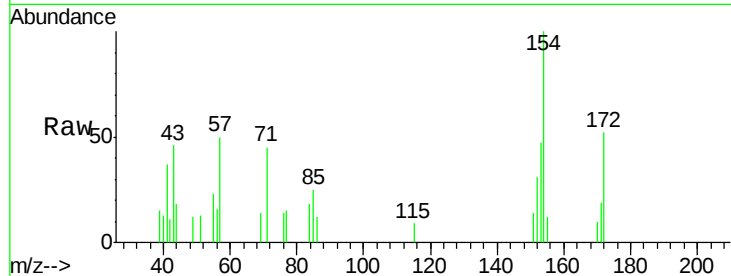




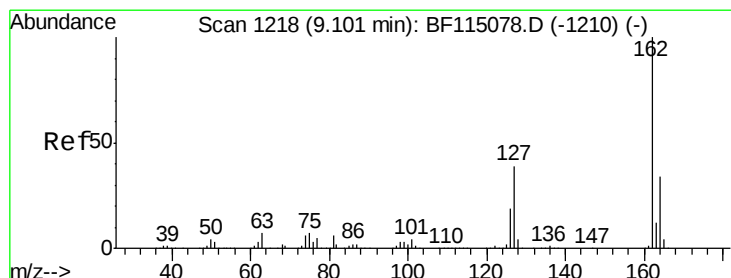
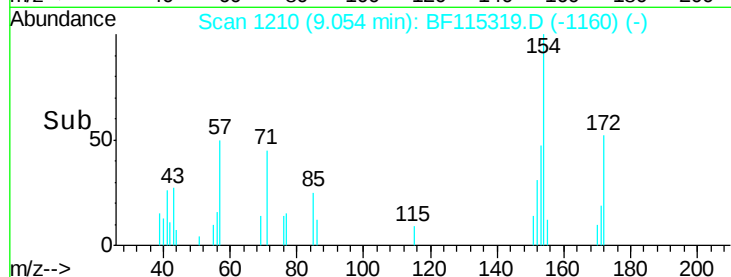
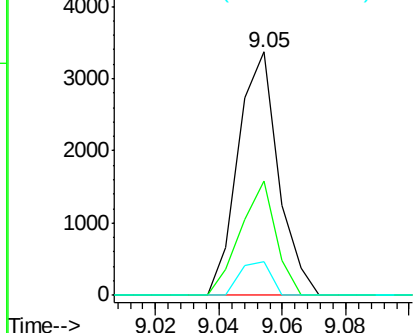
#46  
 1,1'-Biphenyl  
 Concen: 0.109 ng  
 RT: 9.05 min Scan# 1210  
 Delta R.T. -0.01 min  
 Lab File: BF115319.D  
 Acq: 29 Jun 2019 13:34

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SAMPLE-11

Tgt Ion:154 Resp: 2959  
 Ion Ratio Lower Upper  
 154 100  
 153 47.1 20.9 60.9  
 76 13.8 0.0 34.1

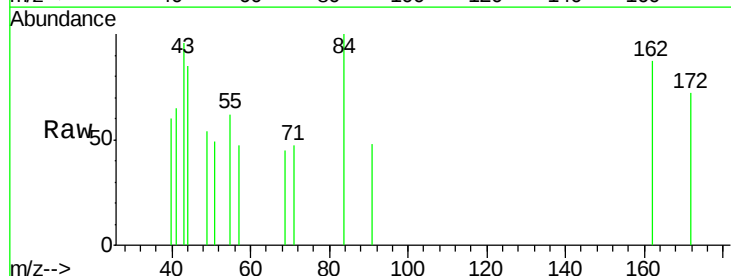


Abundance Ion 154.00 (153.70 to 154.70): E  
 Ion 153.00 (152.70 to 153.70): E  
 Ion 76.00 (75.70 to 76.70): BF1

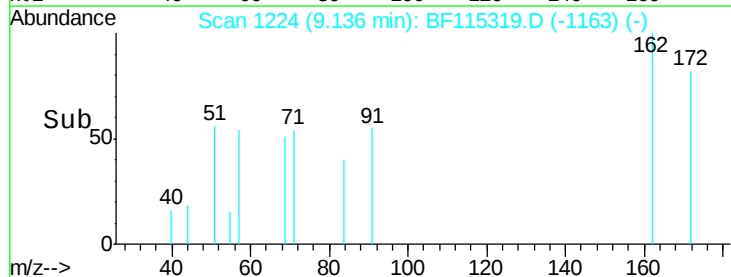
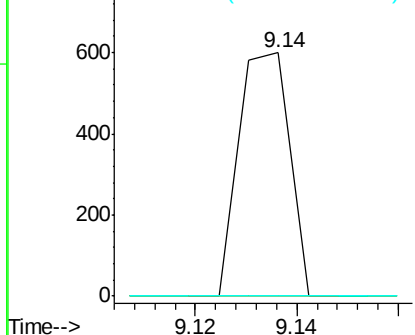


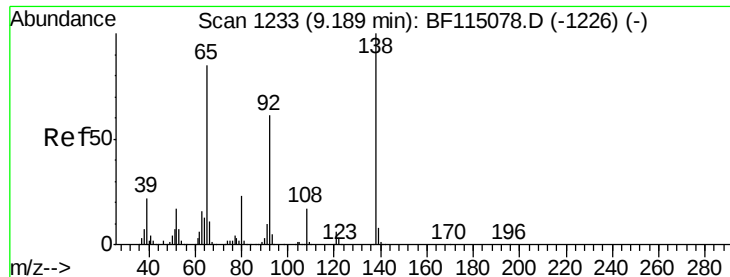
#47  
 2-Chloronaphthalene  
 Concen: 0.019 ng  
 RT: 9.14 min Scan# 1224  
 Delta R.T. 0.06 min  
 Lab File: BF115319.D  
 Acq: 29 Jun 2019 13:34

Tgt Ion:162 Resp: 416  
 Ion Ratio Lower Upper  
 162 100  
 127 0.0 30.8 46.2#  
 164 0.0 27.0 40.4#



Abundance Ion 162.00 (161.70 to 162.70): E  
 Ion 127.00 (126.70 to 127.70): E  
 Ion 164.00 (163.70 to 164.70): E

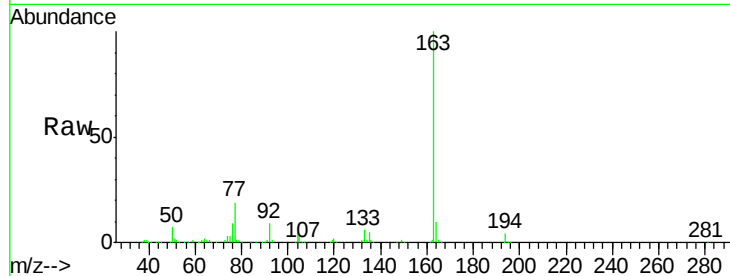




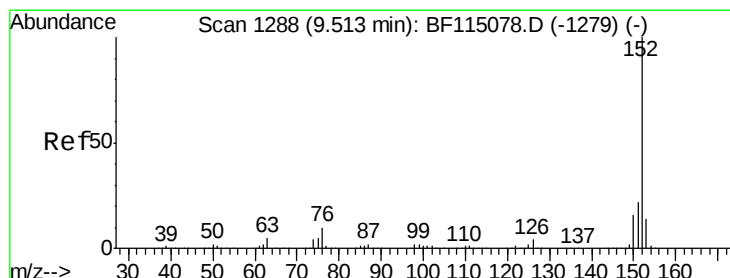
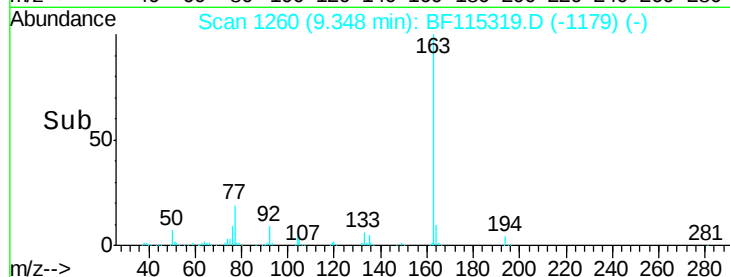
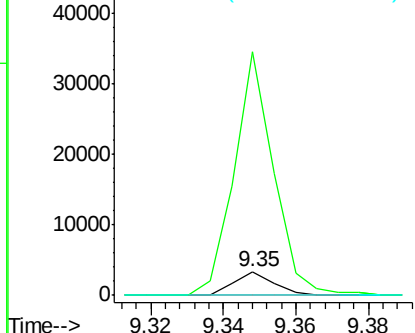
#48  
2-Nitroaniline  
Concen: 0.391 ng  
RT: 9.35 min Scan# 1260  
Delta R.T. 0.18 min  
Lab File: BF115319.D  
Acq: 29 Jun 2019 13:34

Instrument :  
BNA\_F  
ClientSampleId :  
SAMPLE-11

Tgt Ion: 65 Resp: 2513  
Ion Ratio Lower Upper  
65 100  
92 1024.0 57.4 86.2#  
138 0.0 94.1 141.1#

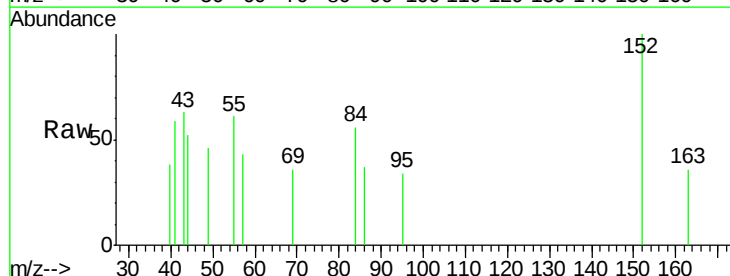


Abundance Ion 65.00 (64.70 to 65.70): BF1  
Ion 92.00 (91.70 to 92.70): BF1  
Ion 138.00 (137.70 to 138.70): BF1

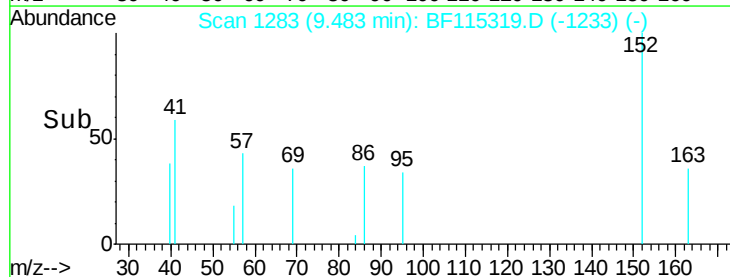
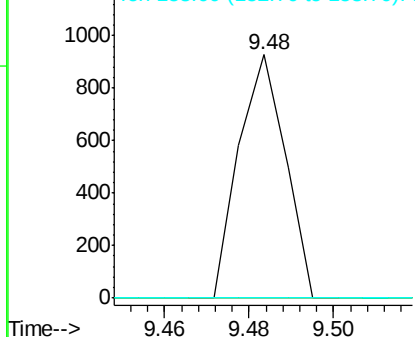


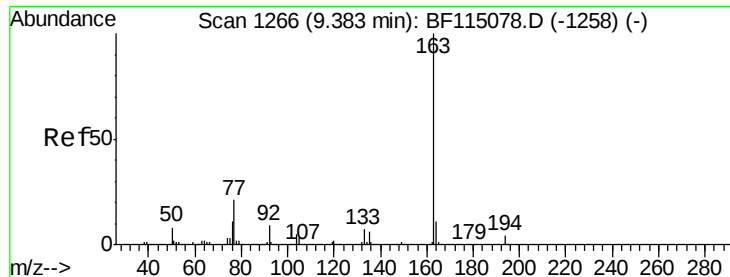
#49  
Acenaphthylene  
Concen: 0.021 ng  
RT: 9.48 min Scan# 1283  
Delta R.T. -0.01 min  
Lab File: BF115319.D  
Acq: 29 Jun 2019 13:34

Tgt Ion: 152 Resp: 709  
Ion Ratio Lower Upper  
152 100  
151 0.0 17.2 25.8#  
153 0.0 11.0 16.6#



Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 151.00 (150.70 to 151.70): E  
Ion 153.00 (152.70 to 153.70): E





#50

Dimethylphthalate

Concen: 12.930 ng

RT: 9.35 min Scan# 1260

Delta R.T. -0.01 min

Lab File: BF115319.D

Acq: 29 Jun 2019 13:34

Instrument :

BNA\_F

ClientSampleId :

SAMPLE-11

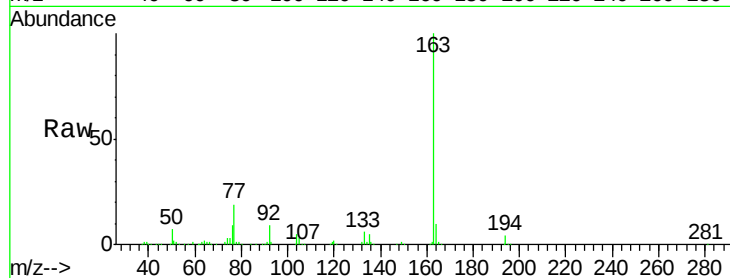
Tgt Ion:163 Resp: 323378

Ion Ratio Lower Upper

163 100

194 3.8 3.2 4.8

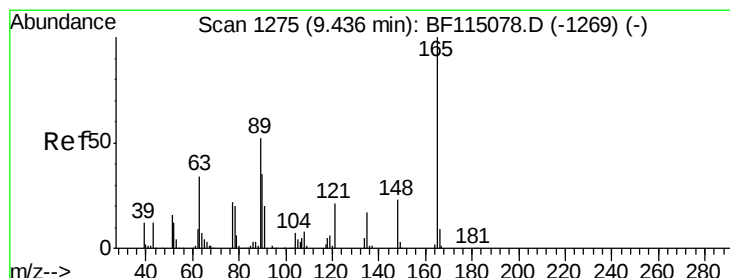
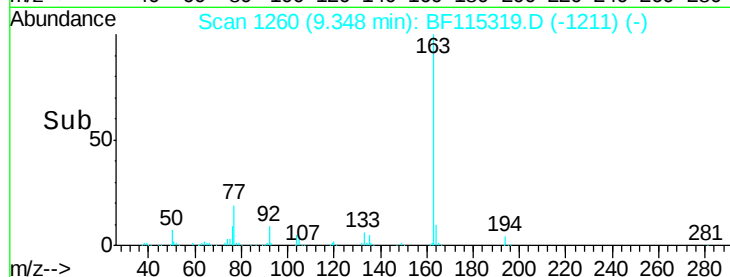
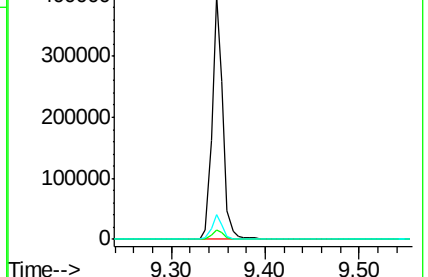
164 10.3 8.6 13.0



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



#51

2,6-Dinitrotoluene

Concen: 0.563 ng

RT: 9.35 min Scan# 1260

Delta R.T. -0.06 min

Lab File: BF115319.D

Acq: 29 Jun 2019 13:34

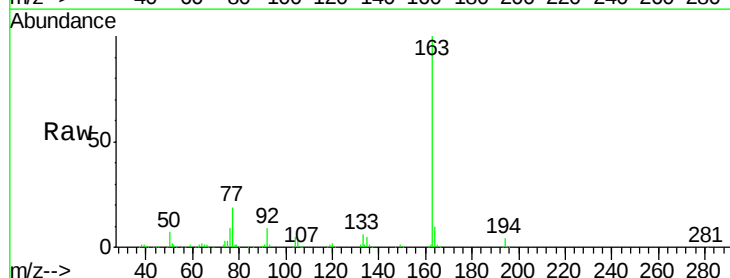
Tgt Ion:165 Resp: 3250

Ion Ratio Lower Upper

165 100

63 131.0 39.4 59.2#

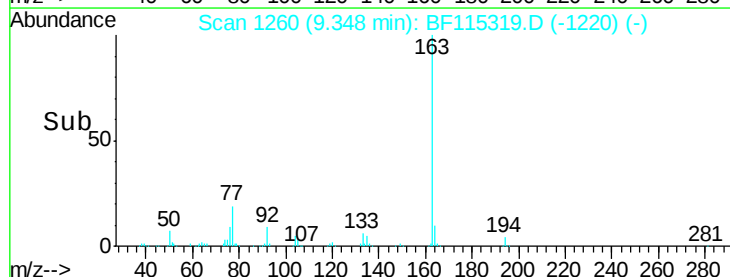
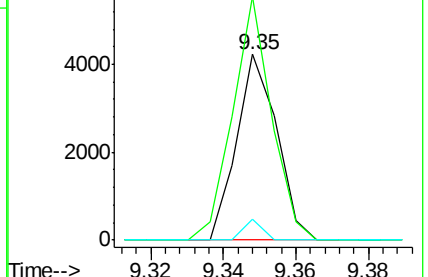
89 11.5 42.0 63.0#

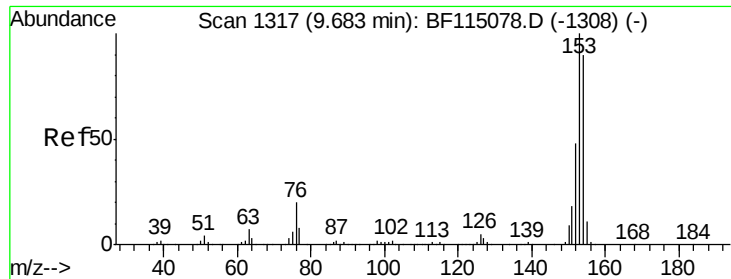


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1





#52

Acenaphthene

Concen: 0.062 ng

RT: 9.62 min Scan# 1307

Delta R.T. -0.04 min

Lab File: BF115319.D

Acq: 29 Jun 2019 13:34

Instrument :

BNA\_F

ClientSampleId :

SAMPLE-11

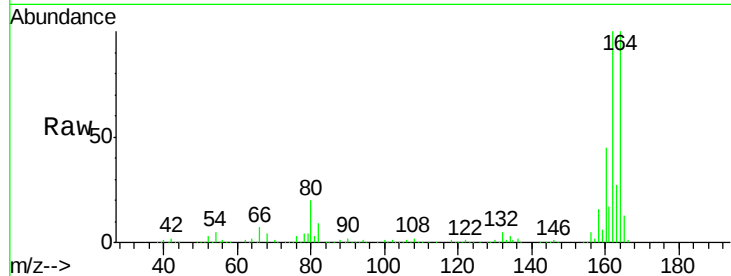
Tgt Ion:154 Resp: 1331

Ion Ratio Lower Upper

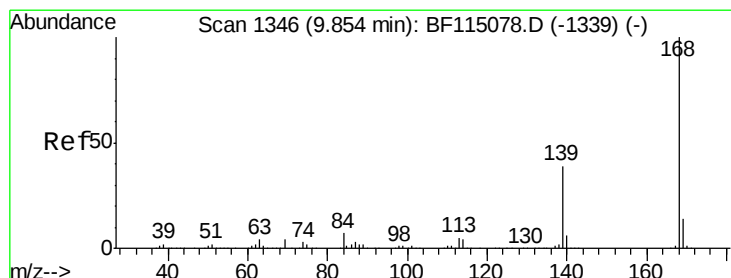
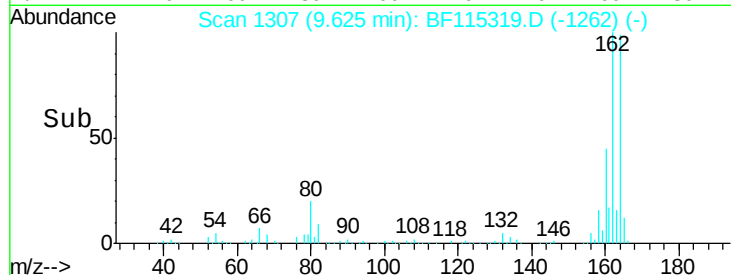
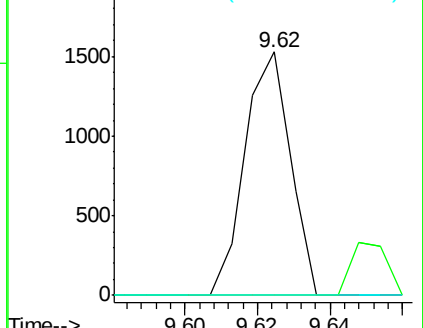
154 100

153 0.0 88.7 133.1#

152 0.0 42.6 64.0#



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



#55

Dibenzofuran

Concen: 0.006 ng

RT: 9.82 min Scan# 1341

Delta R.T. -0.01 min

Lab File: BF115319.D

Acq: 29 Jun 2019 13:34

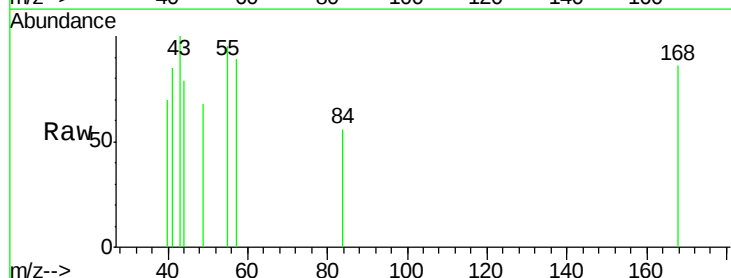
Tgt Ion:168 Resp: 179

Ion Ratio Lower Upper

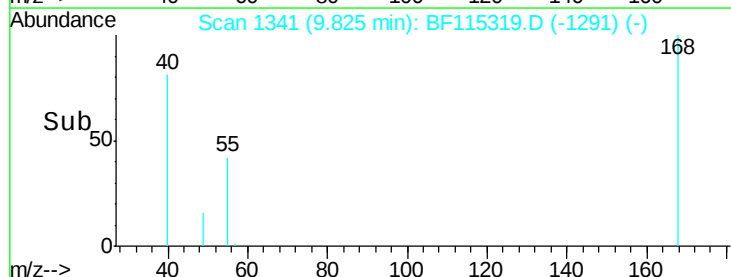
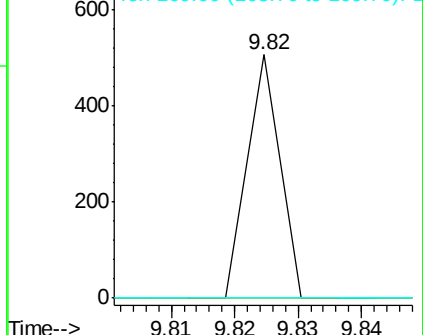
168 100

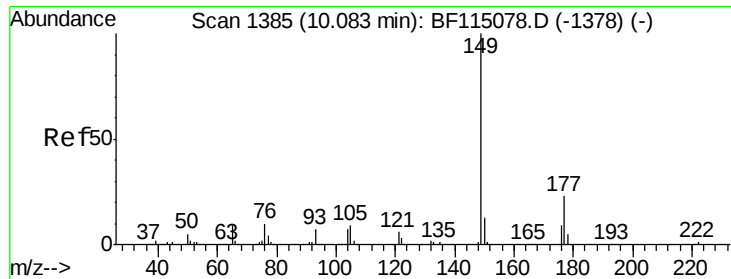
139 0.0 31.1 46.7#

169 0.0 11.3 16.9#



Abundance Ion 168.00 (167.70 to 168.70): E  
Ion 139.00 (138.70 to 139.70): E  
Ion 169.00 (168.70 to 169.70): E

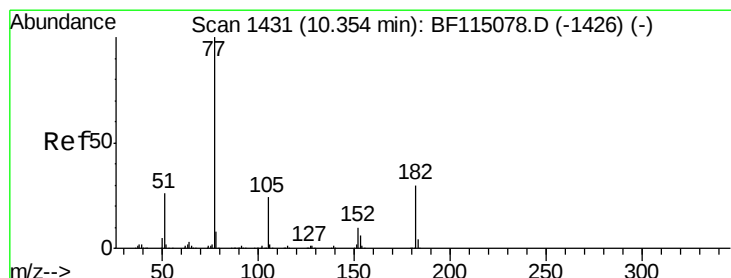
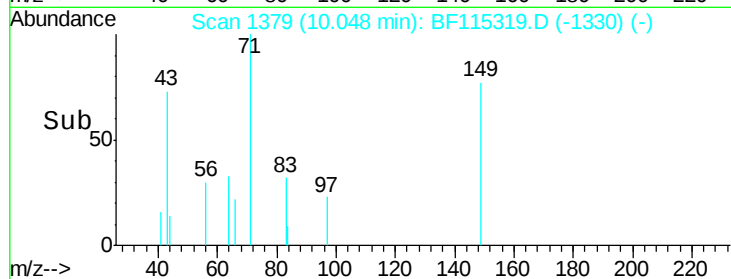
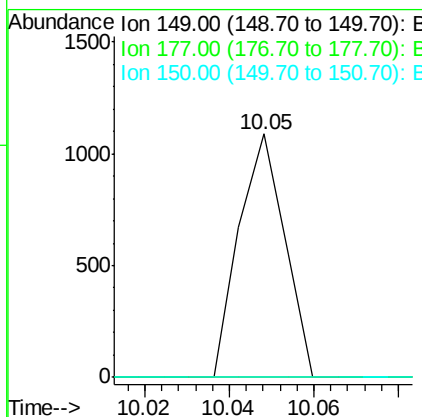
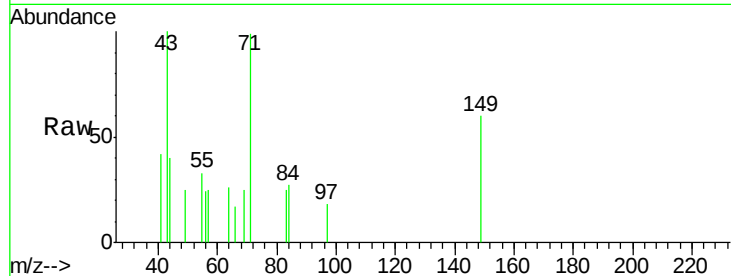




#60  
Diethylphthalate  
Concen: 0.032 ng  
RT: 10.05 min Scan# 1379  
Delta R.T. -0.01 min  
Lab File: BF115319.D  
Acq: 29 Jun 2019 13:34

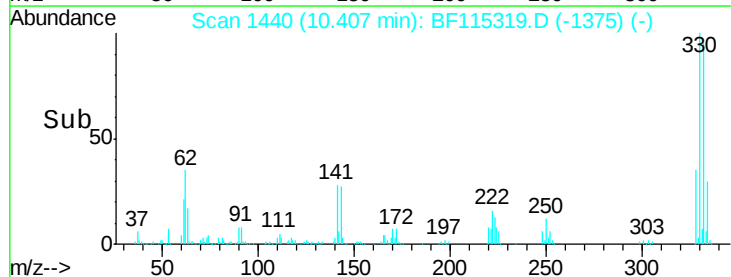
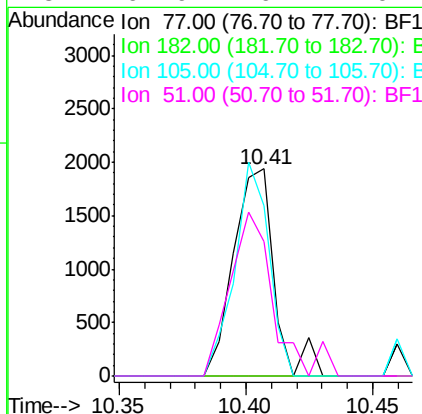
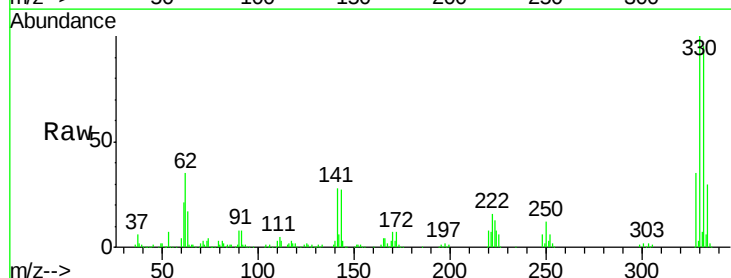
Instrument :  
BNA\_F  
ClientSampleId :  
SAMPLE-11

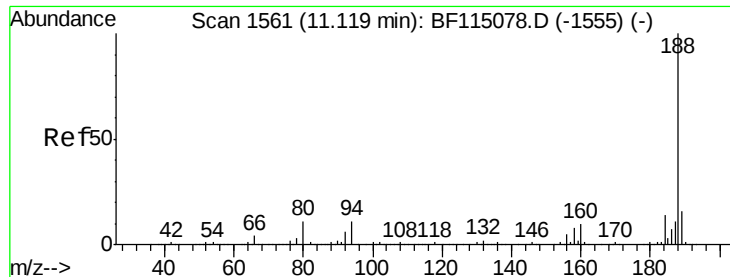
Tgt Ion: 149 Resp: 816  
Ion Ratio Lower Upper  
149 100  
177 0.0 18.7 28.1#  
150 0.0 10.4 15.6#



#63  
Azobenzene  
Concen: 0.092 ng  
RT: 10.41 min Scan# 1440  
Delta R.T. 0.08 min  
Lab File: BF115319.D  
Acq: 29 Jun 2019 13:34

Tgt Ion: 77 Resp: 2167  
Ion Ratio Lower Upper  
77 100  
182 0.0 10.1 50.1#  
105 82.5 4.5 44.5#  
51 64.9 6.4 46.4#

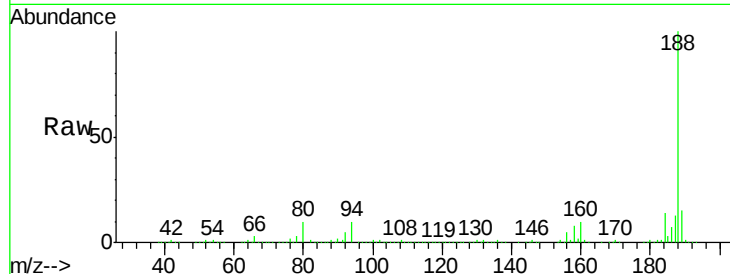




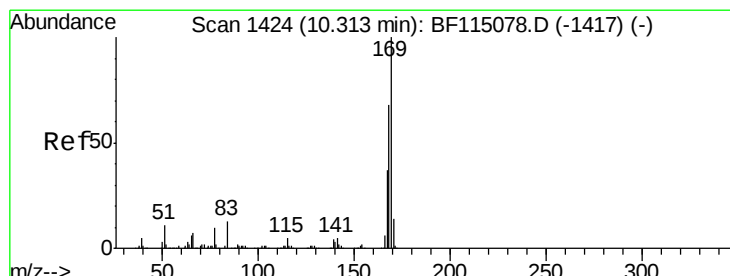
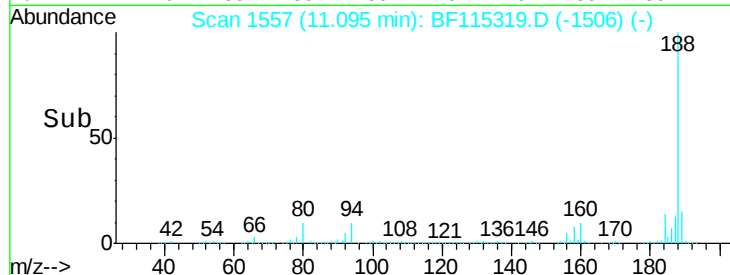
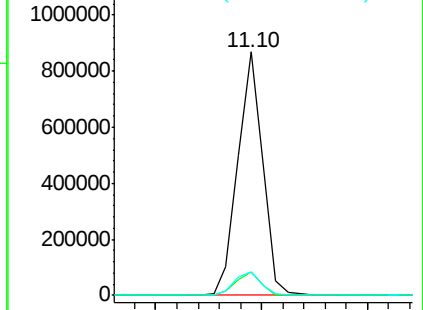
#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.10 min Scan# 1557  
Delta R.T. 0.00 min  
Lab File: BF115319.D  
Acq: 29 Jun 2019 13:34

Instrument :  
BNA\_F  
ClientSampleId :  
SAMPLE-11

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 188   | Resp: | 703109 |
| Ion      | Ratio | Lower | Upper  |
| 188      | 100   |       |        |
| 94       | 9.8   | 8.6   | 12.8   |
| 80       | 9.9   | 8.8   | 13.2   |

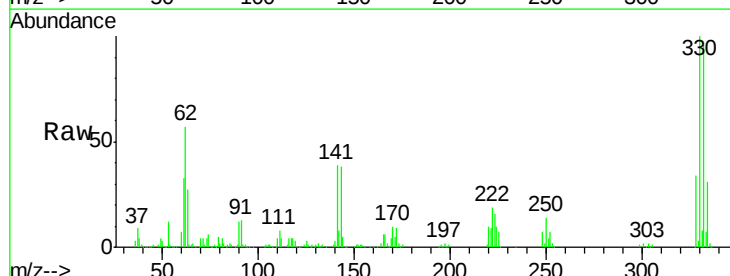


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF1  
Ion 80.00 (79.70 to 80.70): BF1

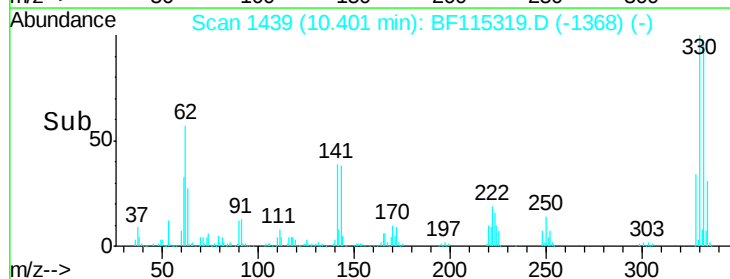
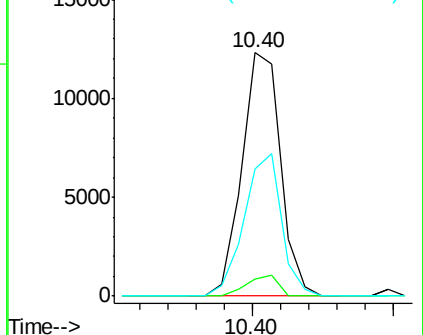


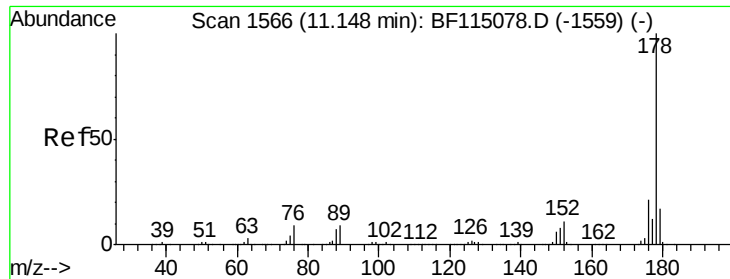
#66  
n-Nitrosodiphenylamine  
Concen: 0.533 ng  
RT: 10.40 min Scan# 1439  
Delta R.T. 0.12 min  
Lab File: BF115319.D  
Acq: 29 Jun 2019 13:34

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 169   | Resp: | 11669 |
| Ion      | Ratio | Lower | Upper |
| 169      | 100   |       |       |
| 168      | 7.3   | 54.2  | 81.4# |
| 167      | 52.3  | 29.4  | 44.0# |



Abundance Ion 169.00 (168.70 to 169.70): E  
Ion 168.00 (167.70 to 168.70): E  
Ion 167.00 (166.70 to 167.70): E

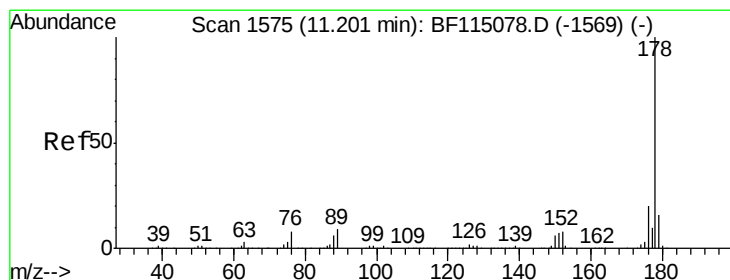
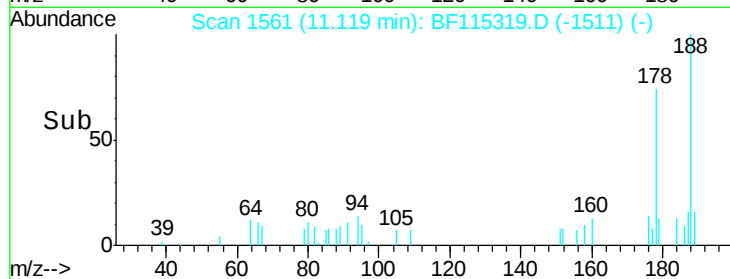
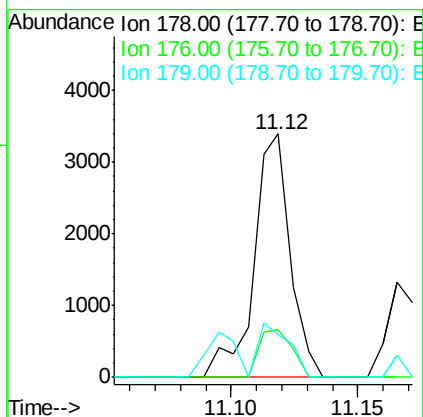
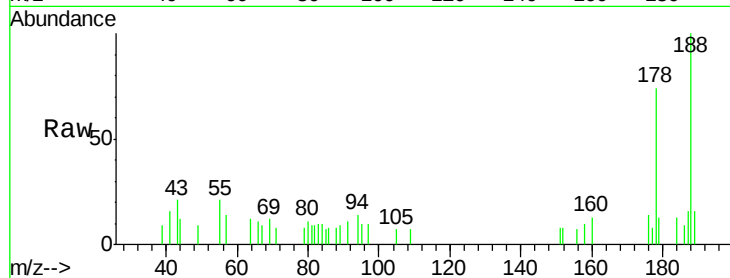




#71  
 Phenanthrene  
 Concen: 0.089 ng  
 RT: 11.12 min Scan# 1561  
 Delta R.T. -0.01 min  
 Lab File: BF115319.D  
 Acq: 29 Jun 2019 13:34

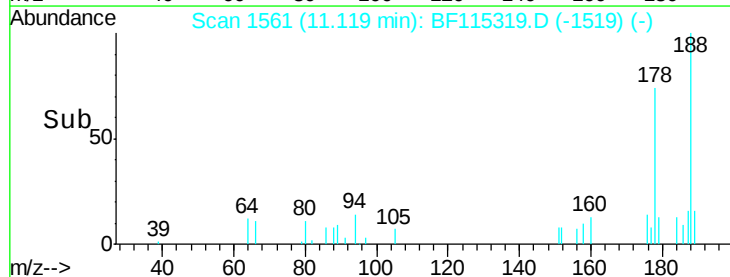
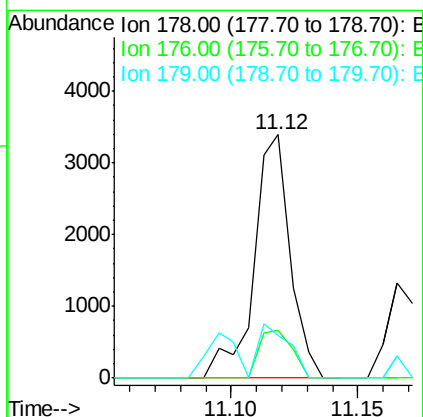
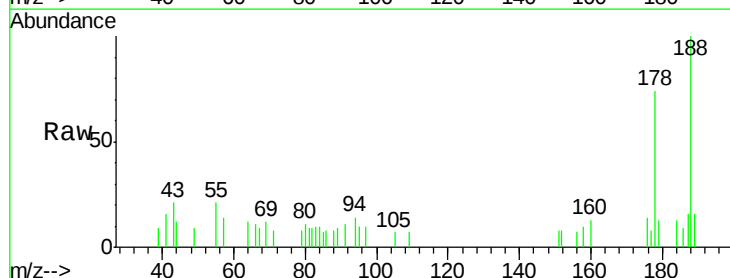
Instrument :  
 BNA\_F  
 ClientSampleId :  
 SAMPLE-11

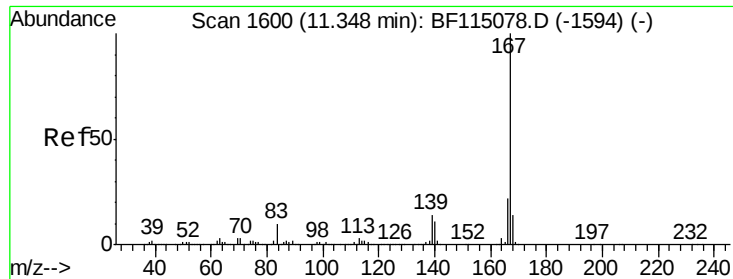
Tgt Ion:178 Resp: 3377  
 Ion Ratio Lower Upper  
 178 100  
 176 19.5 16.9 25.3  
 179 17.4 13.2 19.8



#72  
 Anthracene  
 Concen: 0.088 ng  
 RT: 11.12 min Scan# 1561  
 Delta R.T. -0.05 min  
 Lab File: BF115319.D  
 Acq: 29 Jun 2019 13:34

Tgt Ion:178 Resp: 3377  
 Ion Ratio Lower Upper  
 178 100  
 176 19.5 16.1 24.1  
 179 17.4 12.9 19.3

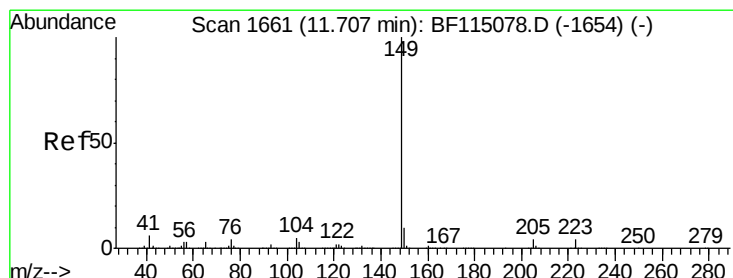
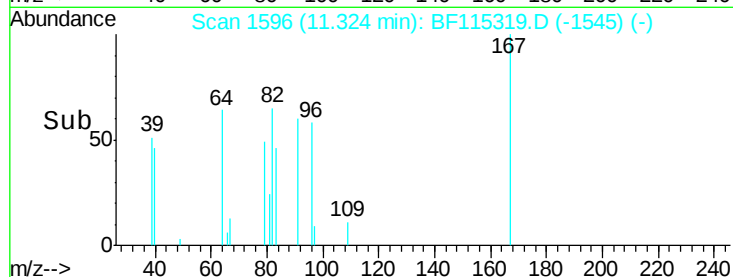
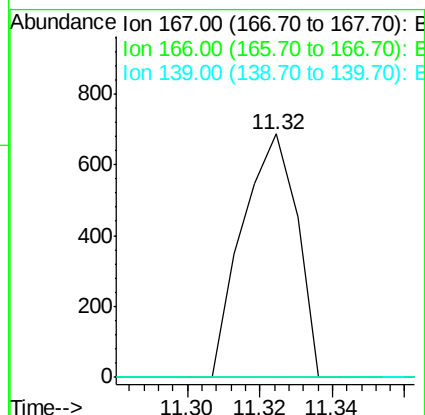
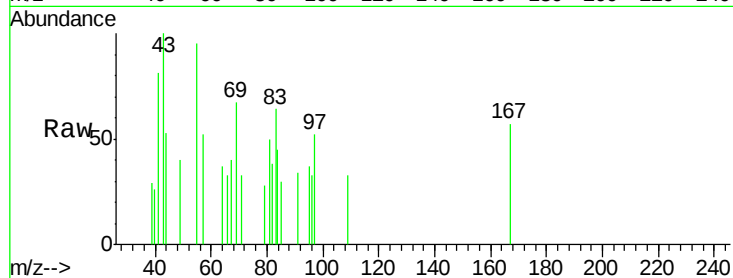




#73  
 Carbazole  
 Concen: 0.021 ng  
 RT: 11.32 min Scan# 1596  
 Delta R.T. 0.00 min  
 Lab File: BF115319.D  
 Acq: 29 Jun 2019 13:34

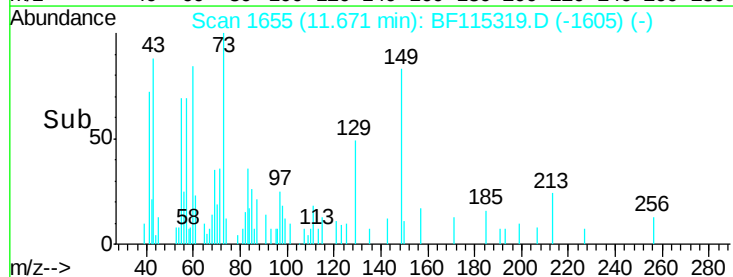
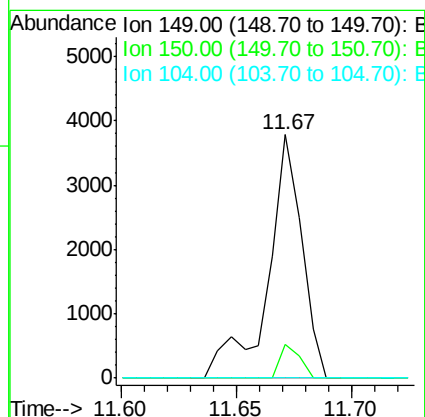
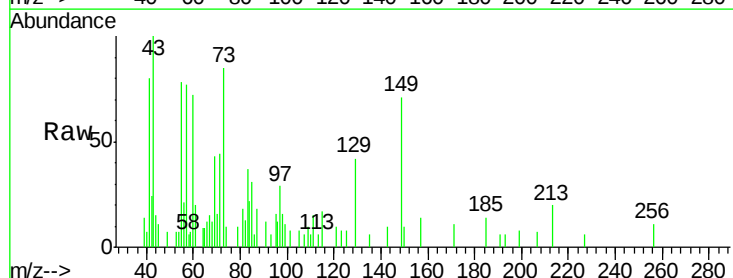
Instrument :  
 BNA\_F  
 ClientSampleId :  
 SAMPLE-11

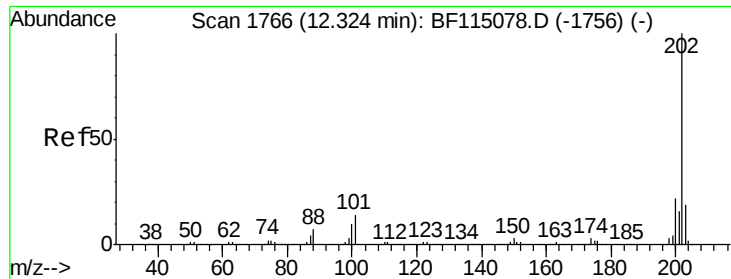
Tgt Ion:167 Resp: 718  
 Ion Ratio Lower Upper  
 167 100  
 166 0.0 18.0 27.0#  
 139 0.0 11.1 16.7#



#74  
 Di-n-butylphthalate  
 Concen: 0.098 ng  
 RT: 11.67 min Scan# 1655  
 Delta R.T. -0.01 min  
 Lab File: BF115319.D  
 Acq: 29 Jun 2019 13:34

Tgt Ion:149 Resp: 3870  
 Ion Ratio Lower Upper  
 149 100  
 150 13.7 7.8 11.8#  
 104 0.0 3.7 5.5#

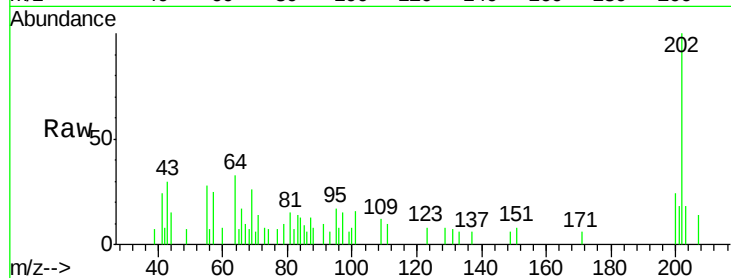




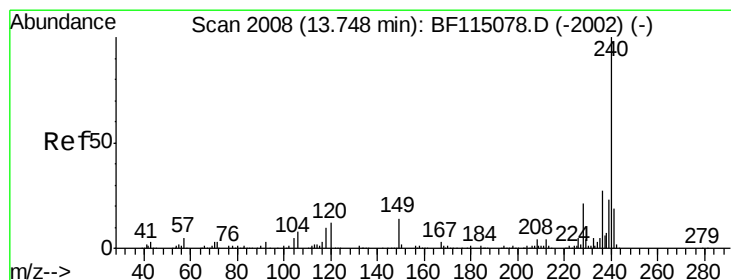
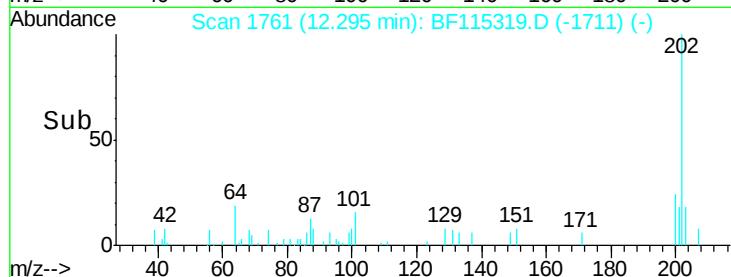
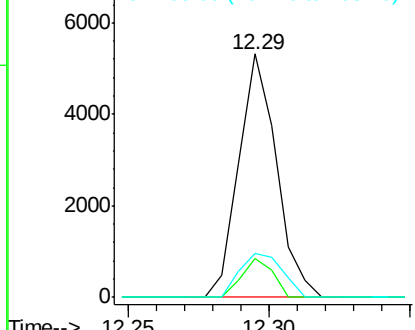
#75  
 Fluoranthene  
 Concen: 0.130 ng  
 RT: 12.29 min Scan# 1761  
 Delta R.T. -0.01 min  
 Lab File: BF115319.D  
 Acq: 29 Jun 2019 13:34

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SAMPLE-11

Tgt Ion: 202 Resp: 4921  
 Ion Ratio Lower Upper  
 202 100  
 101 16.0 0.0 34.0  
 203 18.0 0.0 38.8

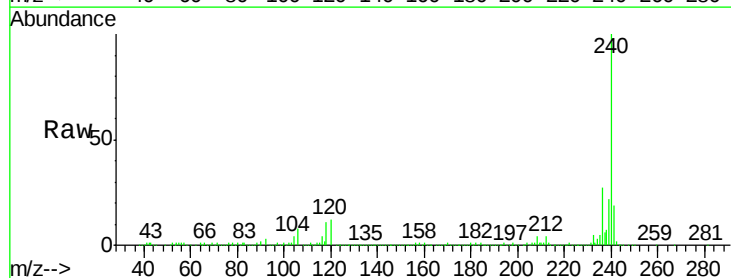


Abundance Ion 202.00 (201.70 to 202.70): E  
 Ion 101.00 (100.70 to 101.70): E  
 Ion 203.00 (202.70 to 203.70): E

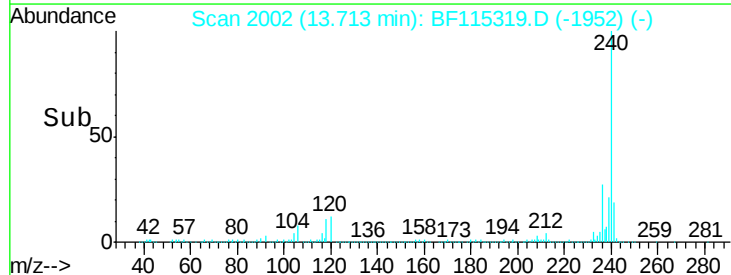
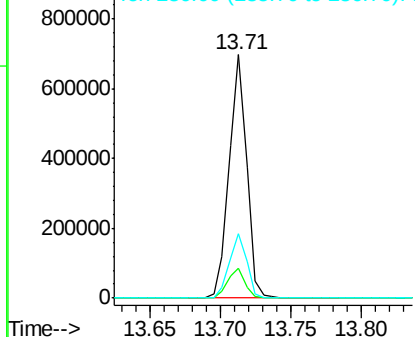


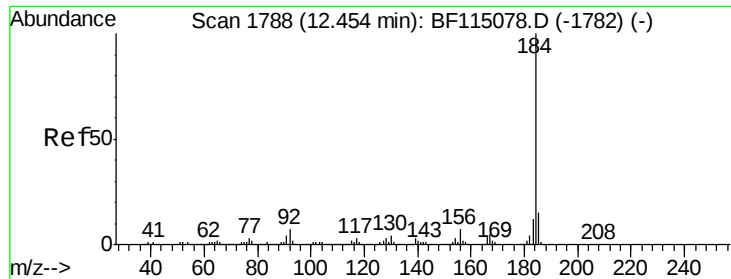
#76  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 13.71 min Scan# 2002  
 Delta R.T. -0.01 min  
 Lab File: BF115319.D  
 Acq: 29 Jun 2019 13:34

Tgt Ion: 240 Resp: 605595  
 Ion Ratio Lower Upper  
 240 100  
 120 12.4 9.4 14.2  
 236 26.6 21.7 32.5



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





#77

Benzidine

Concen: 0.877 ng

RT: 12.68 min Scan# 1826

Delta R.T. 0.25 min

Lab File: BF115319.D

Acq: 29 Jun 2019 13:34

Instrument :

BNA\_F

ClientSampleId :

SAMPLE-11

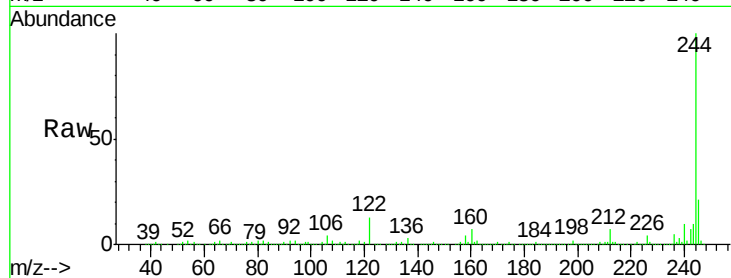
Tgt Ion:184 Resp: 23585

Ion Ratio Lower Upper

184 100

185 17.1 12.2 18.2

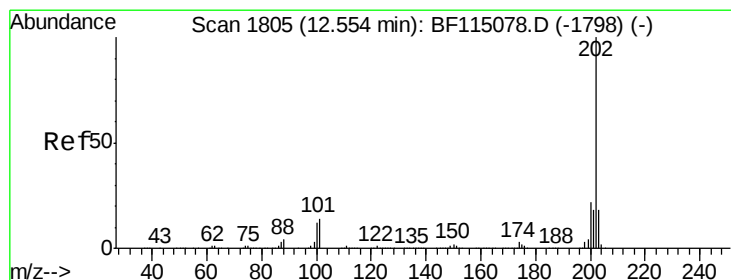
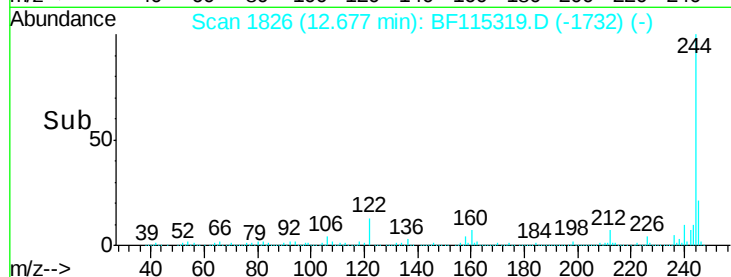
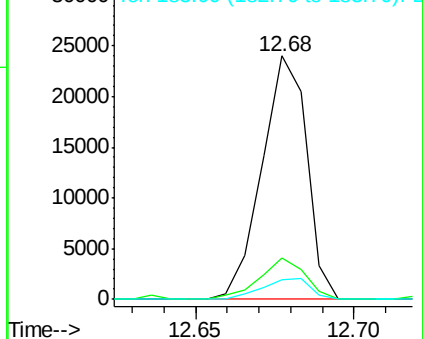
183 8.1 9.6 14.4#



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



#78

Pyrene

Concen: 0.123 ng

RT: 12.52 min Scan# 1799

Delta R.T. -0.01 min

Lab File: BF115319.D

Acq: 29 Jun 2019 13:34

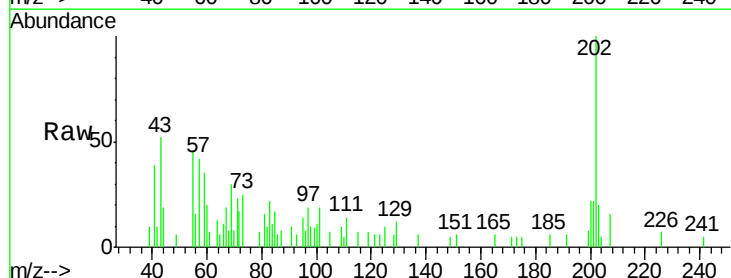
Tgt Ion:202 Resp: 5736

Ion Ratio Lower Upper

202 100

200 21.8 17.9 26.9

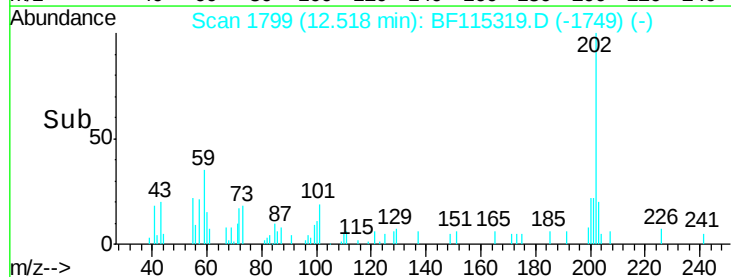
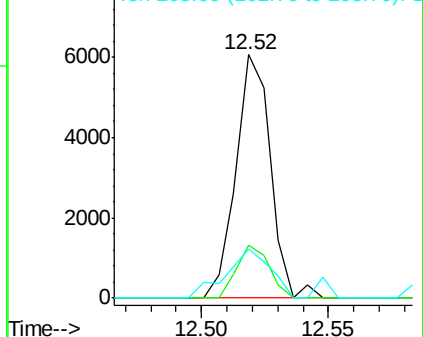
203 20.2 14.6 21.8

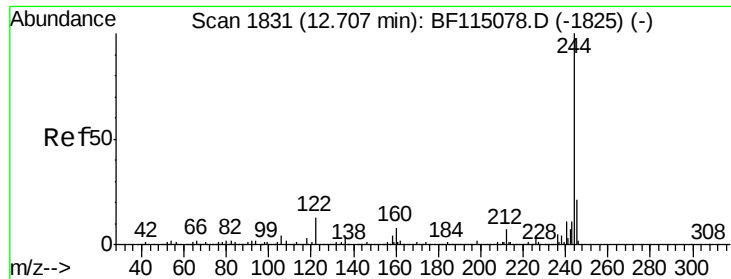


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#79

Terphenyl-d14

Concen: 64.122 ng

RT: 12.68 min Scan# 1826

Delta R.T. -0.01 min

Lab File: BF115319.D

Acq: 29 Jun 2019 13:34

Instrument :

BNA\_F

ClientSampleId :

SAMPLE-11

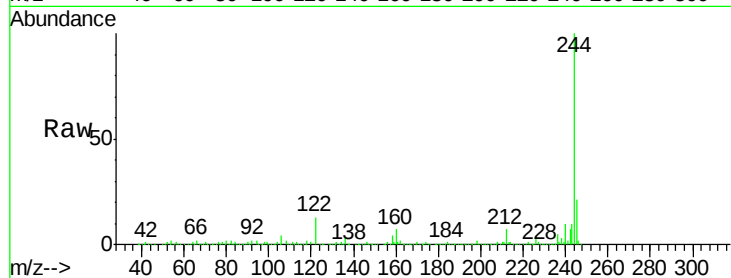
Tgt Ion:244 Resp: 1826389

Ion Ratio Lower Upper

244 100

212 6.8 5.8 8.6

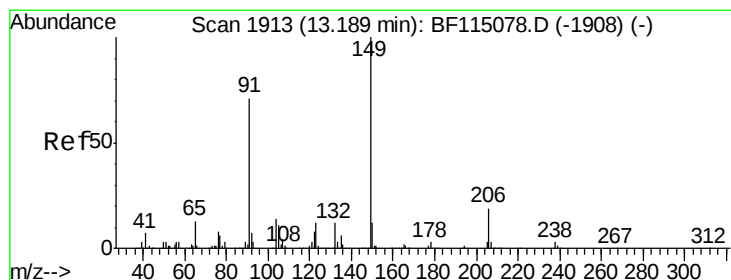
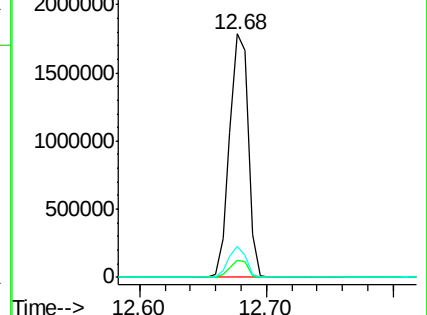
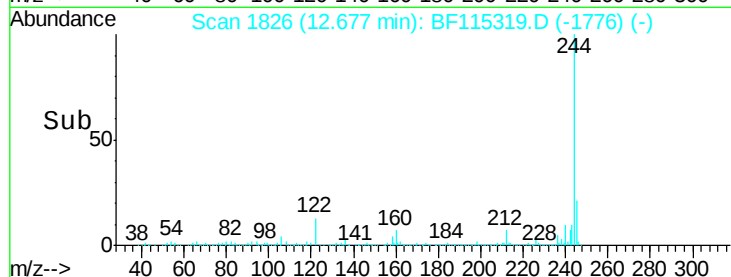
122 12.8 10.4 15.6



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



#80

Butylbenzylphthalate

Concen: 0.013 ng

RT: 13.15 min Scan# 1907

Delta R.T. -0.01 min

Lab File: BF115319.D

Acq: 29 Jun 2019 13:34

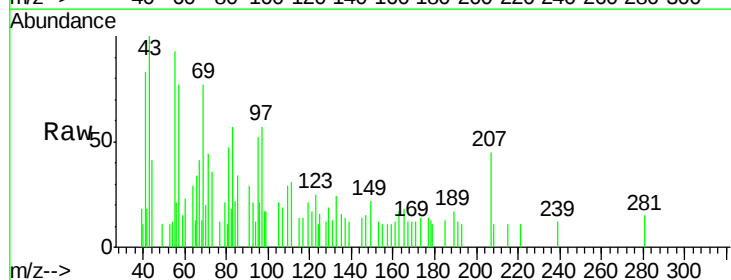
Tgt Ion:149 Resp: 265

Ion Ratio Lower Upper

149 100

91 133.4 56.5 84.7#

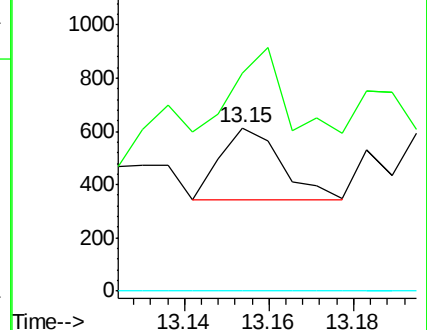
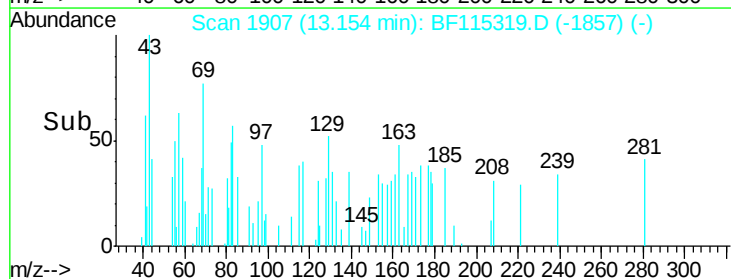
206 0.0 15.3 22.9#

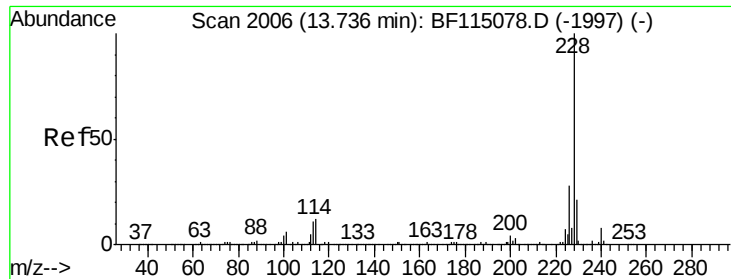


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 91.00 (90.70 to 91.70): BF1

Ion 206.00 (205.70 to 206.70): E





#81

Benzo(a)anthracene

Concen: 0.131 ng

RT: 13.70 min Scan# 2000

Delta R.T. -0.01 min

Lab File: BF115319.D

Acq: 29 Jun 2019 13:34

Instrument :

BNA\_F

ClientSampled :

SAMPLE-11

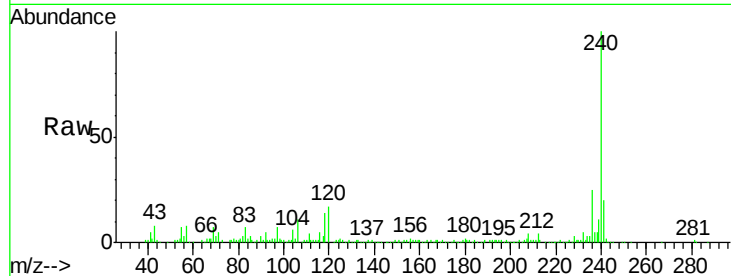
Tgt Ion:228 Resp: 5690

Ion Ratio Lower Upper

228 100

226 36.8 22.5 33.7#

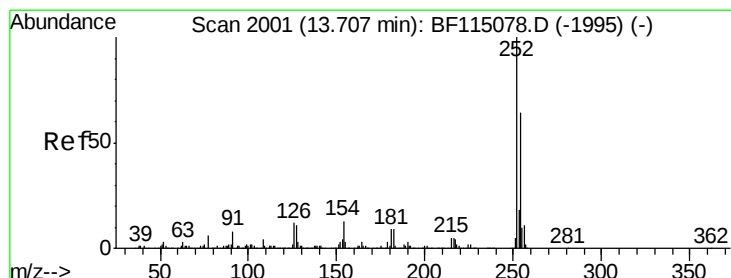
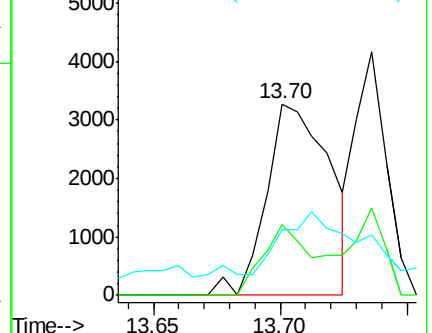
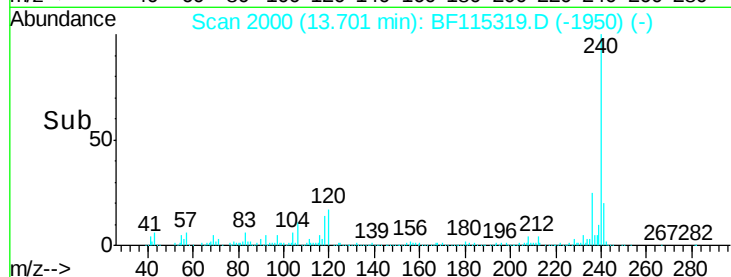
229 34.6 16.6 24.8#



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



#82

3,3'-Dichlorobenzidine

Concen: 0.018 ng

RT: 13.67 min Scan# 1995

Delta R.T. -0.01 min

Lab File: BF115319.D

Acq: 29 Jun 2019 13:34

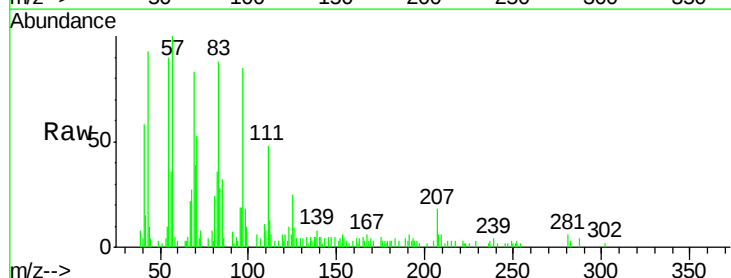
Tgt Ion:252 Resp: 279

Ion Ratio Lower Upper

252 100

254 71.1 51.1 76.7

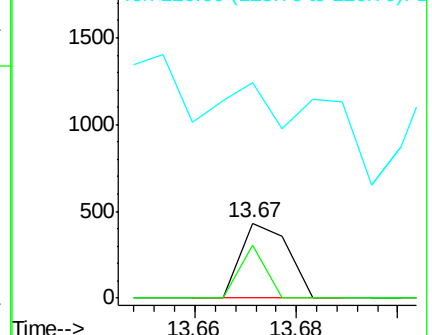
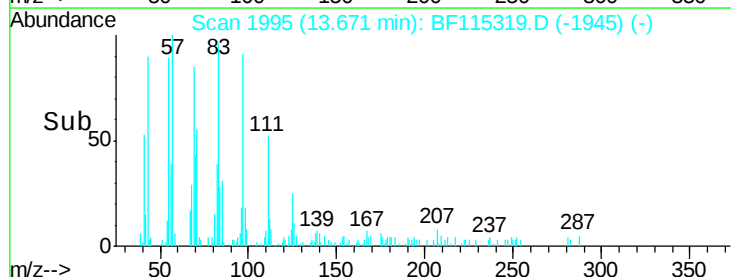
126 286.6 9.4 14.0#

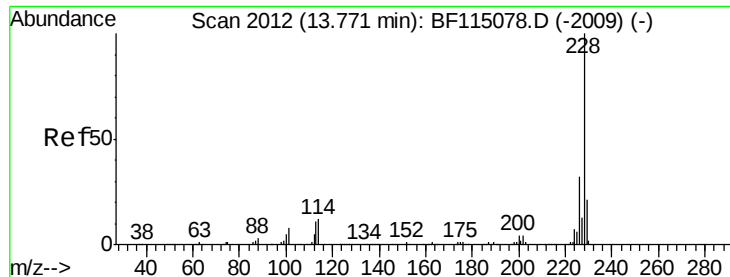


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 254.00 (253.70 to 254.70): E

Ion 126.00 (125.70 to 126.70): E

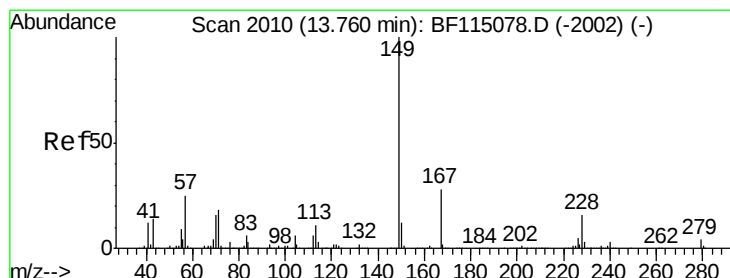
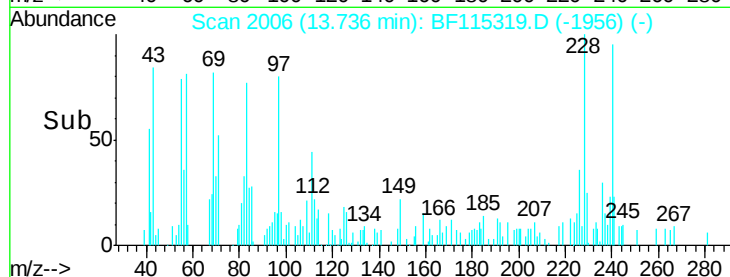
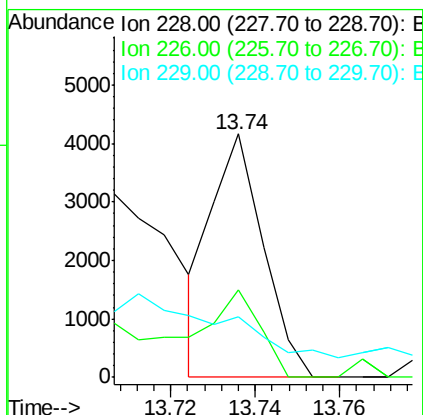
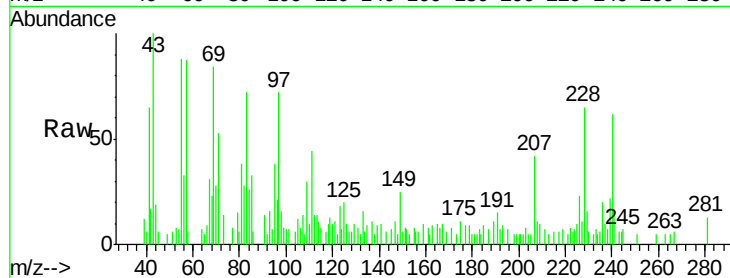




#83  
Chrysene  
Concen: 0.089 ng  
RT: 13.74 min Scan# 2006  
Delta R.T. -0.01 min  
Lab File: BF115319.D  
Acq: 29 Jun 2019 13:34

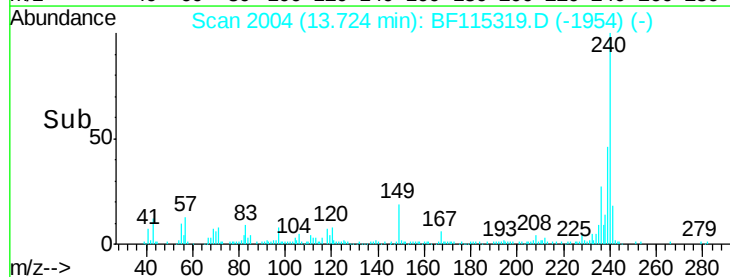
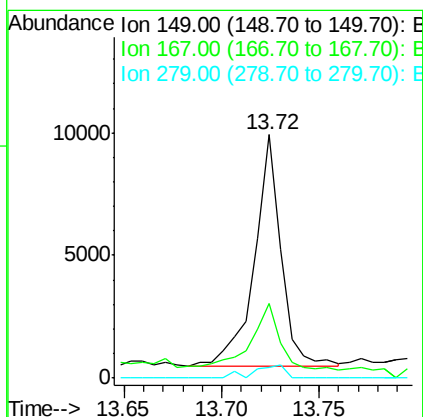
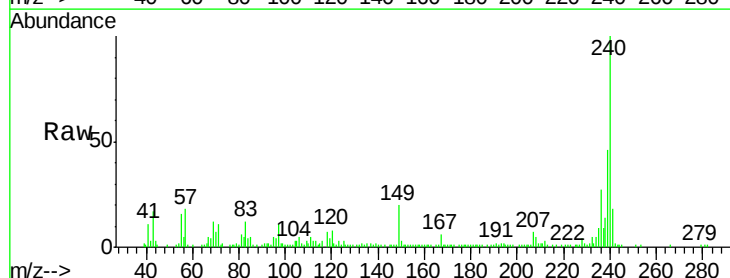
Instrument :  
BNA\_F  
ClientSampleId :  
SAMPLE-11

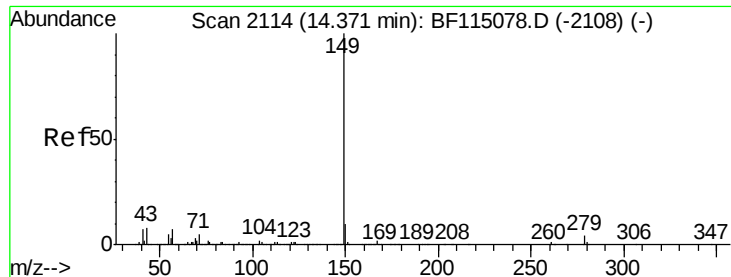
Tgt Ion:228 Resp: 3544  
Ion Ratio Lower Upper  
228 100  
226 35.7 25.4 38.0  
229 24.9 16.5 24.7#



#84  
Bis(2-ethylhexyl)phthalate  
Concen: 0.332 ng  
RT: 13.72 min Scan# 2004  
Delta R.T. -0.01 min  
Lab File: BF115319.D  
Acq: 29 Jun 2019 13:34

Tgt Ion:149 Resp: 8935  
Ion Ratio Lower Upper  
149 100  
167 30.9 22.2 33.4  
279 4.6 2.9 4.3#





#85

Di-n-octyl phthalate

Concen: 0.043 ng

RT: 14.33 min Scan# 2107

Delta R.T. -0.01 min

Lab File: BF115319.D

Acq: 29 Jun 2019 13:34

Instrument :

BNA\_F

ClientSampleId :

SAMPLE-11

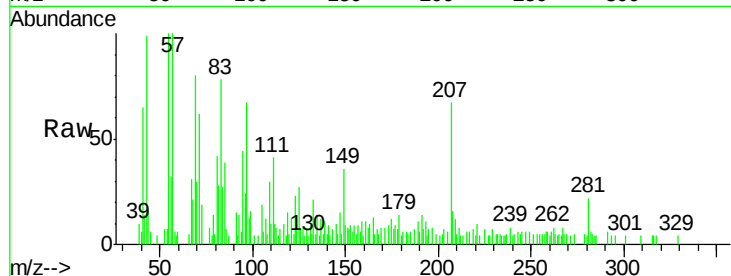
Tgt Ion:149 Resp: 1951

Ion Ratio Lower Upper

149 100

167 0.0 1.2 1.8#

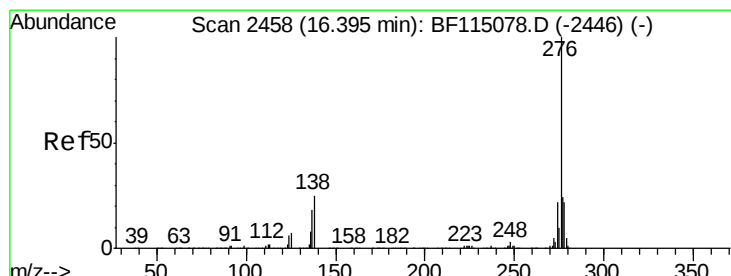
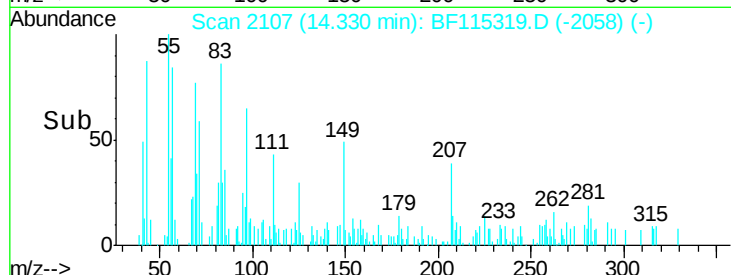
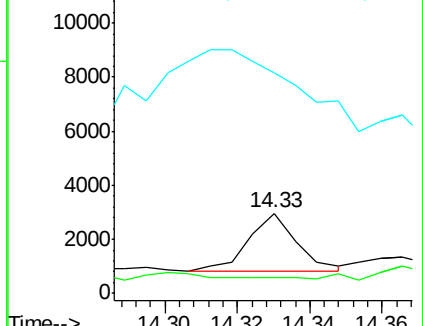
43 880.8 7.0 10.6#



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 43.00 (42.70 to 43.70): BF1



#86

Indeno(1,2,3-cd)pyrene

Concen: 0.086 ng

RT: 16.33 min Scan# 2447

Delta R.T. -0.02 min

Lab File: BF115319.D

Acq: 29 Jun 2019 13:34

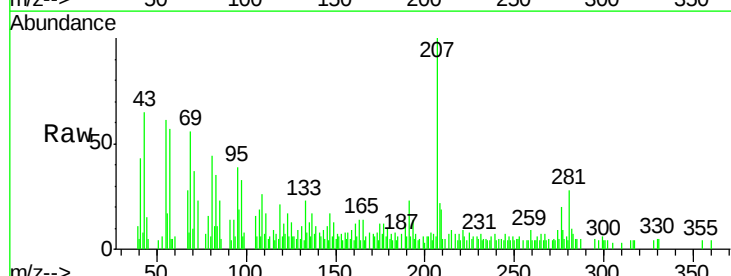
Tgt Ion:276 Resp: 4060

Ion Ratio Lower Upper

276 100

138 5.3 23.2 34.8#

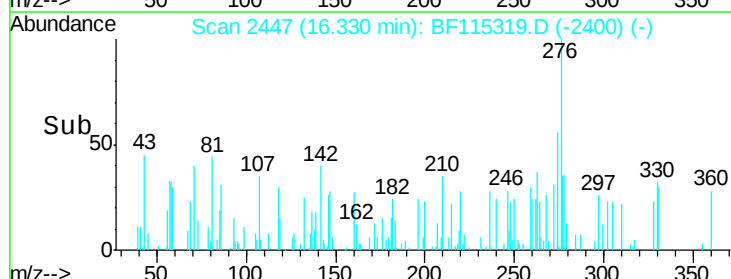
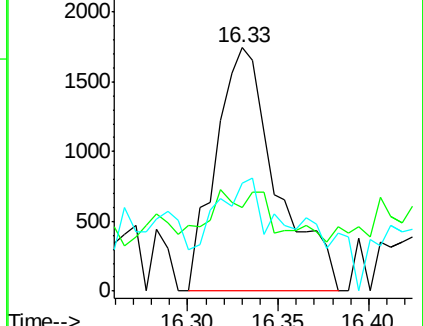
277 23.0 20.1 30.1

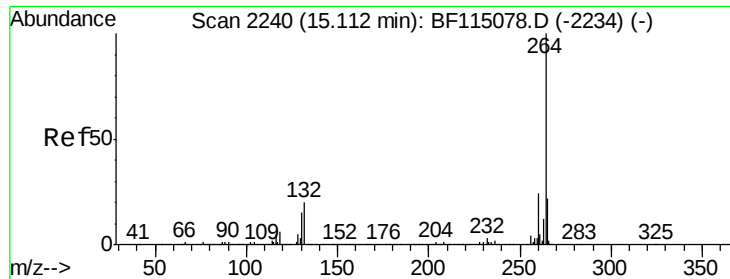


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

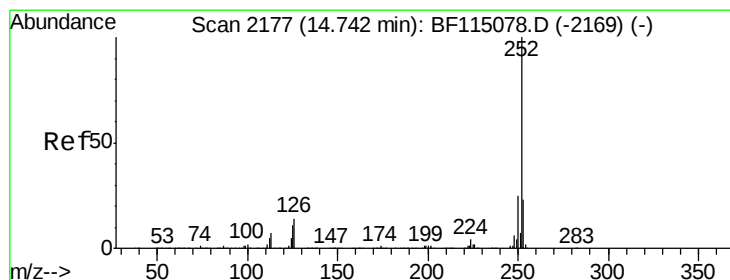
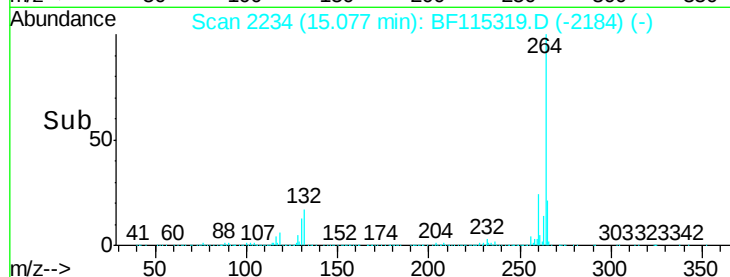
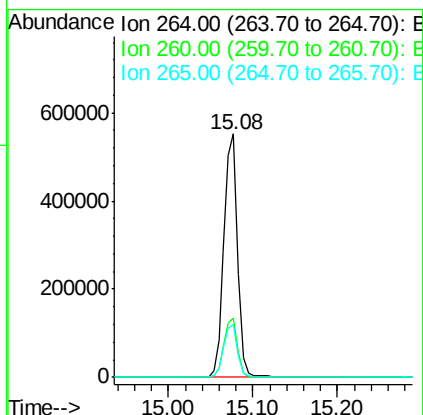
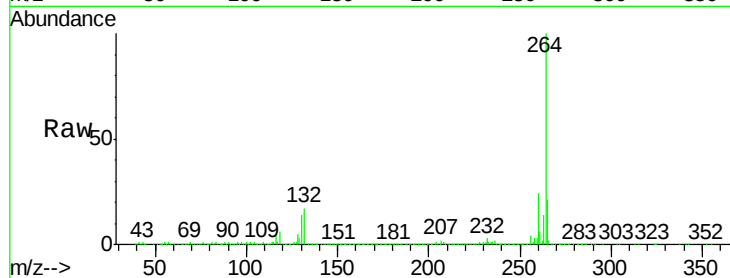




#87  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.08 min Scan# 2234  
Delta R.T. -0.01 min  
Lab File: BF115319.D  
Acq: 29 Jun 2019 13:34

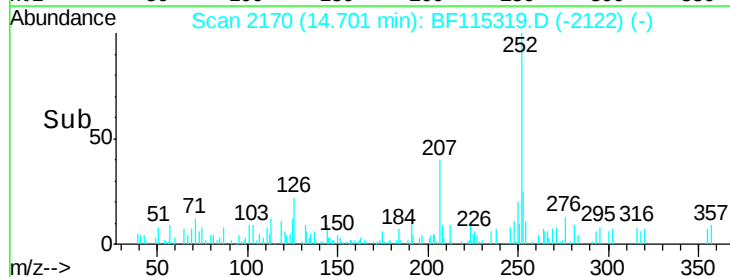
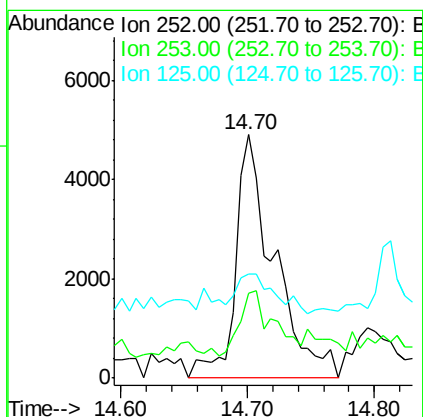
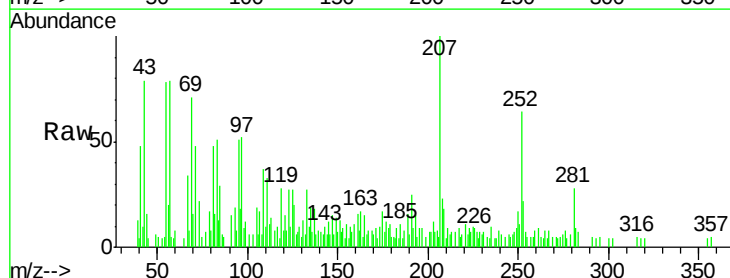
Instrument :  
BNA\_F  
ClientSampleId :  
SAMPLE-11

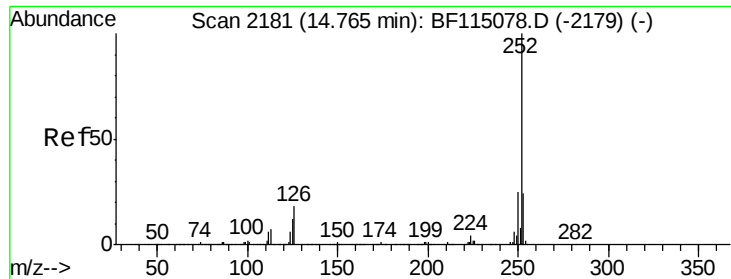
Tgt Ion:264 Resp: 619912  
Ion Ratio Lower Upper  
264 100  
260 24.3 19.6 29.4  
265 21.5 17.3 25.9



#88  
Benzo(b)fluoranthene  
Concen: 0.265 ng  
RT: 14.70 min Scan# 2170  
Delta R.T. -0.02 min  
Lab File: BF115319.D  
Acq: 29 Jun 2019 13:34

Tgt Ion:252 Resp: 10235  
Ion Ratio Lower Upper  
252 100  
253 34.9 18.1 27.1#  
125 42.9 8.7 13.1#

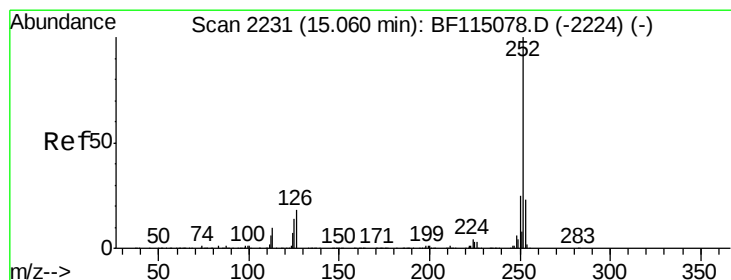
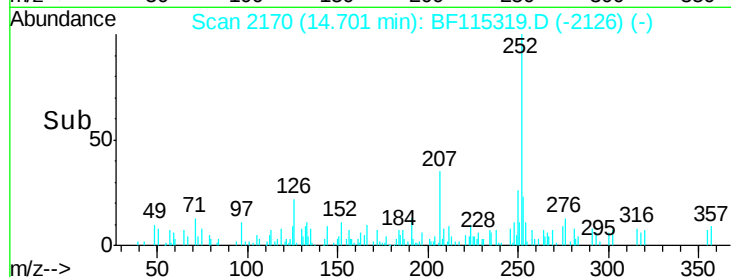
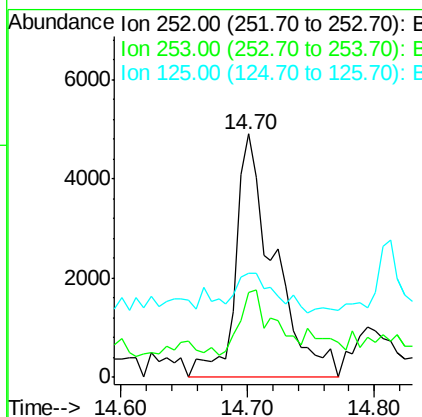
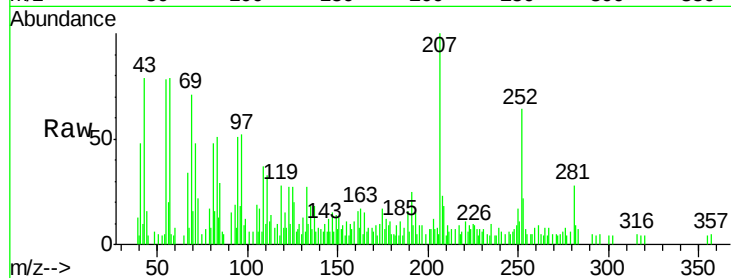




#89  
Benzo(k)fluoranthene  
Concen: 0.295 ng  
RT: 14.70 min Scan# 2170  
Delta R.T. -0.04 min  
Lab File: BF115319.D  
Acq: 29 Jun 2019 13:34

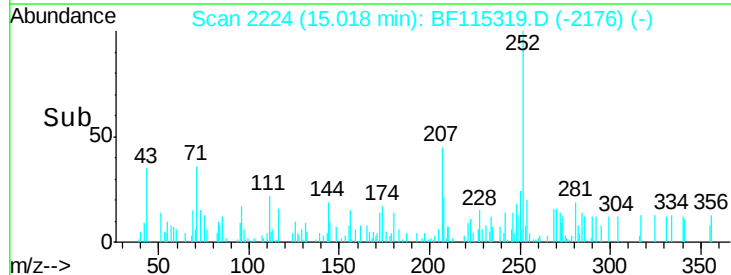
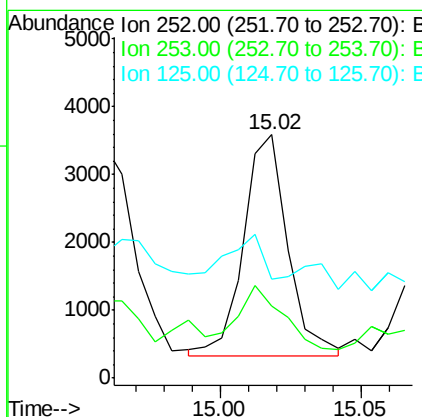
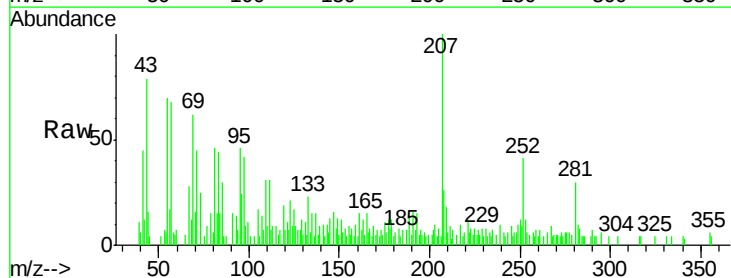
Instrument :  
BNA\_F  
ClientSampleId :  
SAMPLE-11

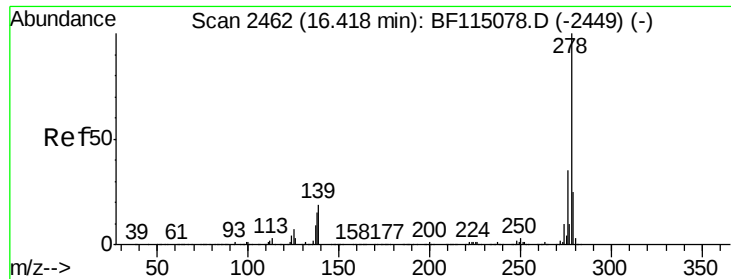
Tgt Ion:252 Resp: 10235  
Ion Ratio Lower Upper  
252 100  
253 34.9 18.9 28.3#  
125 42.9 10.2 15.2#



#90  
Benzo(a)pyrene  
Concen: 0.102 ng  
RT: 15.02 min Scan# 2224  
Delta R.T. -0.02 min  
Lab File: BF115319.D  
Acq: 29 Jun 2019 13:34

Tgt Ion:252 Resp: 3554  
Ion Ratio Lower Upper  
252 100  
253 29.5 18.3 27.5#  
125 40.8 10.9 16.3#





#91

Dibenzo(a,h)anthracene

Concen: 0.060 ng

RT: 16.35 min Scan# 2450

Delta R.T. -0.02 min

Lab File: BF115319.D

Acq: 29 Jun 2019 13:34

Instrument :

BNA\_F

ClientSampleId :

SAMPLE-11

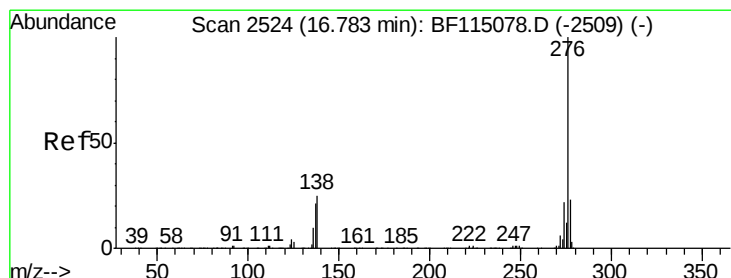
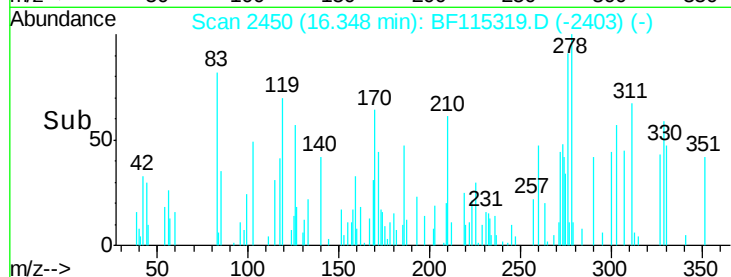
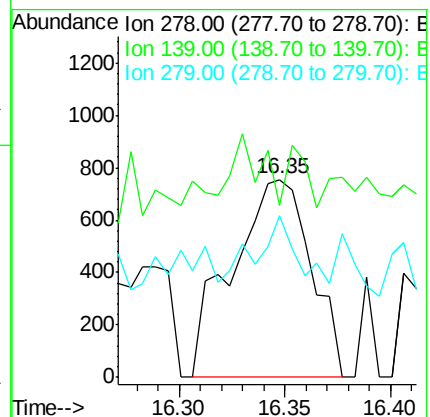
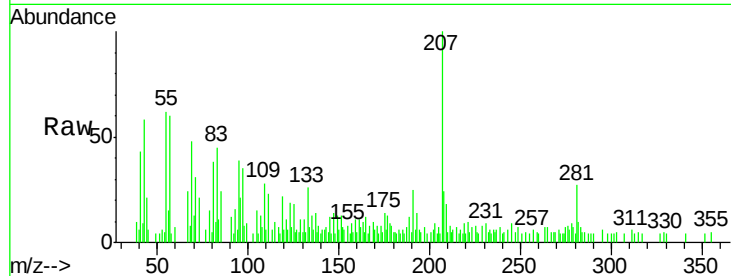
Tgt Ion:278 Resp: 1953

Ion Ratio Lower Upper

278 100

139 86.6 15.4 23.2#

279 81.9 19.9 29.9#



#92

Benzo(g,h,i)perylene

Concen: 0.128 ng

RT: 16.70 min Scan# 2510

Delta R.T. -0.04 min

Lab File: BF115319.D

Acq: 29 Jun 2019 13:34

Tgt Ion:276 Resp: 4216

Ion Ratio Lower Upper

276 100

277 36.5 18.6 28.0#

138 33.2 19.8 29.6#

